

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, DC 20549

Form 10-K

(Mark One)



ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2020



TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission file number: 001-38727

PennyMac Financial Services, Inc.

(formerly known as New PennyMac Financial Services, Inc.)

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

3043 Townsgate Road, Westlake Village, California

(Address of principal executive offices)

83-1098934

(IRS Employer
Identification No.)

91361

(Zip Code)

(818) 224-7442

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value	PFSI	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☒ No ☐

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☒

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer", "accelerated filer", "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☒

Non-accelerated filer ☐

Accelerated filer ☐

Smaller reporting company ☐

Emerging growth company ☐

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. Yes ☒ No ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

As of June 30, 2020 the aggregate market value of the registrant's Common Stock, \$0.0001 par value ("common stock"), held by non-affiliates was \$1,739,903,749 based on the closing price as reported on the New York Stock Exchange on that date.

As of February 22, 2021, the number of outstanding shares of common stock of the registrant was 69,244,063.

Documents Incorporated by Reference

Document	Parts Into Which Incorporated
Definitive Proxy Statement for 2021 Annual Meeting of Stockholders	Part III

PENNYMAC FINANCIAL SERVICES, INC.
FORM 10-K
December 31, 2020
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SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K (“Report”) contains certain forward-looking statements that are subject to various risks and uncertainties. Forward-looking statements are generally identifiable by use of forward-looking terminology such as “may,” “will,” “should,” “potential,” “intend,” “expect,” “seek,” “anticipate,” “estimate,” “approximately,” “believe,” “could,” “project,” “predict,” “continue,” “plan” or other similar words or expressions.

Forward-looking statements are based on certain assumptions, discuss future expectations, describe future plans and strategies, contain financial and operating projections or state other forward-looking information. Examples of forward-looking statements include the following:

- projections of our revenues, income, earnings per share, capital structure or other financial items;
- descriptions of our plans or objectives for future operations, products or services;
- forecasts of our future economic performance, interest rates, profit margins and our share of future markets; and
- descriptions of assumptions underlying or relating to any of the foregoing expectations regarding the timing of generating any revenues.

Our ability to predict results or the actual effect of future events, actions, plans or strategies is inherently uncertain. Although we believe that the expectations reflected in such forward-looking statements are based on reasonable assumptions, our actual results and performance could differ materially from those set forth in the forward-looking statements. There are a number of factors, many of which are beyond our control that could cause actual results to differ significantly from management’s expectations. Some of these factors are discussed below.

You should not place undue reliance on any forward-looking statement and should consider the following uncertainties and risks, as well as the risks and uncertainties discussed elsewhere in this Report and as set forth in Item 1A. of Part I hereof and any subsequent Quarterly Reports on Form 10-Q.

Factors that could cause actual results to differ materially from historical results or those anticipated include, but are not limited to:

- our exposure to risks of loss resulting from adverse weather conditions, man-made or natural disasters, the effect of climate change, and pandemics, such as COVID-19;
- failure to modify, resell or refinance early buyout loans or defaults of early buyout loans beyond our expectations;
- the continually changing federal, state and local laws and regulations applicable to the highly regulated industry in which we operate;
- lawsuits or governmental actions if we do not comply with the laws and regulations applicable to our businesses;
- the mortgage lending and servicing-related regulations promulgated by the Consumer Financial Protection Bureau (“CFPB”) and its enforcement of these regulations;
- our dependence on U.S. government-sponsored entities and changes in their current roles or their guarantees or guidelines;
- changes to government mortgage modification programs;
- foreclosure delays and changes in foreclosure practices;

- the licensing and operational requirements of states and other jurisdictions applicable to our businesses, to which our bank competitors are not subject;
- our ability to manage third-party service providers and vendors and their compliance with laws, regulations and investor requirements;
- changes in macroeconomic and U.S. real estate market conditions;
- difficulties inherent in growing loan production volume;
- difficulties inherent in adjusting the size of our operations to reflect changes in business levels;
- maintaining sufficient capital and liquidity to support business growth including compliance with financial covenants;
- changes in prevailing interest rates;
- our substantial amount of indebtedness;
- increases in loan delinquencies and defaults;
- our reliance on PennyMac Mortgage Investment Trust (“PMT”) as a significant source of financing for, and revenue related to, our mortgage banking business;
- our obligation to indemnify third-party purchasers or repurchase loans if loans that we originate, acquire, service or assist in the fulfillment of, fail to meet certain criteria or characteristics or under other circumstances;
- our exposure to counterparties that are unwilling or unable to honor contractual obligations, including their obligation to indemnify us or repurchase defective mortgage loans;
- our ability to realize the anticipated benefit of potential future acquisitions of mortgage servicing rights (“MSRs”);
- our obligation to indemnify PMT if our services fail to meet certain criteria or characteristics or under other circumstances;
- decreases in the returns on the assets that we select and manage for our clients, and our resulting management and incentive fees;
- the extensive amount of regulation applicable to our investment management segment;
- conflicts of interest in allocating our services and investment opportunities among ourselves and PMT;
- the effect of public opinion on our reputation;
- our recent growth;
- our ability to effectively identify, manage, monitor and mitigate financial risks;
- our initiation of new business activities or expansion of existing business activities;

- our ability to detect misconduct and fraud;
- our ability to effectively deploy new information technology applications and infrastructure;
- our ability to mitigate cybersecurity risks and cyber incidents;
- our ability to pay dividends to our stockholders; and
- our organizational structure and certain requirements in our charter documents.

Other factors that could also cause results to differ from our expectations may not be described in this Report or any other document. Each of these factors could by itself, or together with one or more other factors, adversely affect our business, results of operations and/or financial condition.

Forward-looking statements speak only as of the date they are made, and we undertake no obligation to update any forward-looking statement to reflect the impact of circumstances or events that arise after the date the forward-looking statement was made.

PART I

Item 1. *Business*

The following description of our business should be read in conjunction with the information included elsewhere in this Report. This description contains forward-looking statements that involve risks and uncertainties. Actual results could differ significantly from the projections and results discussed in the forward-looking statements due to the factors described under the caption “Risk Factors” and elsewhere in this Report. References in this Report to “we,” “our,” “us,” and the “Company” refer to PennyMac Financial Services, Inc. (formerly known as New PennyMac Financial Services, Inc.) (“PFSI”).

Our Company

We are a specialty financial services firm with a comprehensive mortgage platform and integrated business primarily focused on the production and servicing of U.S. residential mortgage loans (activities which we refer to as mortgage banking) and the management of investments related to the U.S. mortgage market. We believe that our operating capabilities, specialized expertise, access to long-term investment capital, and our management’s experience across all aspects of the mortgage business will allow us to profitably grow these activities and capitalize on other related opportunities as they arise in the future.

We operate and control all of the business and affairs and consolidate the financial results of Private National Mortgage Acceptance Company, LLC (“PennyMac”). PennyMac was founded in 2008 by members of our executive leadership team and two strategic partners, BlackRock Mortgage Ventures, LLC (“BlackRock” or “BlackRock, Inc.”) and HC Partners, LLC, formerly known as Highfields Capital Investments, LLC, together with its affiliates (“Highfields”).

We were formed as a Delaware corporation on July 2, 2018. We became the top-level parent holding company for the consolidated PennyMac business pursuant to a corporate reorganization (the “Reorganization”) that was consummated on November 1, 2018. Before the Reorganization, PNMAC Holdings, Inc. (formerly known as PennyMac Financial Services, Inc.) (“PNMAC Holdings”) was our top-level parent holding company and our public company registrant.

One result of the consummation of the Reorganization was that our equity structure was changed to create a single class of publicly-held common stock as opposed to the two classes that were in place before the Reorganization. PNMAC Holdings’ financial statements remain our historical financial statements.

Our principal mortgage banking subsidiary, PennyMac Loan Services, LLC (“PLS”), is a non-bank producer and servicer of mortgage loans. PLS is a seller/servicer for the Federal National Mortgage Association (“Fannie Mae”) and the Federal Home Loan Mortgage Corporation (“Freddie Mac”), each of which is a government-sponsored entity (“GSE”). PLS is also an approved issuer of securities guaranteed by the Government National Mortgage Association (“Ginnie Mae”), a lender of the Federal Housing Administration (“FHA”), and a lender/servicer of the Veterans Administration (“VA”) and the U.S. Department of Agriculture (“USDA”). We refer to each of Fannie Mae, Freddie Mac, Ginnie Mae, FHA, VA and USDA as an “Agency” and collectively as the “Agencies.” PLS is able to service loans in all 50 states, the District of Columbia, Guam and the U.S. Virgin Islands, and originate loans in 49 states and the District of Columbia, either because it is properly licensed in a particular jurisdiction or exempt or otherwise not required to be licensed in that jurisdiction.

Our investment management subsidiary is PNMAC Capital Management, LLC (“PCM”), a Delaware limited liability company registered with the Securities and Exchange Commission (“SEC”) as an investment adviser under the Investment Advisers Act of 1940 (the “Advisers Act”), as amended. PCM manages PennyMac Mortgage Investment Trust (“PMT”), a mortgage real estate investment trust listed on the New York Stock Exchange under the ticker symbol PMT. PCM previously managed PNMAC Mortgage Opportunity Fund, LLC, PNMAC Mortgage Opportunity Fund, LP, an affiliate of these funds and PNMAC Mortgage Opportunity Fund Investors, LLC. We refer to these funds collectively as our Investment Funds. The Investment Funds were dissolved during 2018.

We conduct our business in three segments: production, servicing (together, production and servicing comprise our mortgage banking activities) and investment management.

- The production segment performs loan origination, acquisition and sale activities.
- The servicing segment performs loan servicing for both newly originated loans we are holding for sale and loans we service for others, including for PMT.
- The investment management segment represents our investment management activities, which include the activities associated with investment asset acquisitions and dispositions such as sourcing, due diligence, negotiation and settlement.

Following is a summary of our segments' results:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Net revenues:			
Production	\$ 2,824,999	\$ 993,884	\$ 385,995
Servicing	840,762	440,784	567,921
Investment management	39,836	42,736	29,587
	<u>\$ 3,705,597</u>	<u>\$ 1,477,404</u>	<u>\$ 983,503</u>
Income (loss) before income taxes:			
Production	\$ 1,964,121	\$ 527,834	\$ 87,266
Servicing	262,144	(14,751)	172,302
Investment management	14,344	16,361	7,003
Non-segment activities (1)	—	—	1,126
	<u>\$ 2,240,609</u>	<u>\$ 529,444</u>	<u>\$ 267,697</u>
Total assets at year end:			
Production	\$ 7,870,398	\$ 4,836,472	\$ 2,434,897
Servicing	23,709,122	5,347,549	5,031,920
Investment management	18,275	19,996	11,681
	<u>\$ 31,597,795</u>	<u>\$ 10,204,017</u>	<u>\$ 7,478,498</u>

(1) Represents *Repricing of payable to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement* we entered into as part of our initial public offering during 2013.

Mortgage Banking

Loan Production

Our loan production segment sources new prime credit quality first-lien residential conventional and government-insured or guaranteed mortgage loans through three channels: correspondent production, consumer direct lending and broker direct lending as described below.

Correspondent Production

In correspondent production we manage, on behalf of PMT and for our own account, the purchase from non-affiliates of mortgage loans that have been underwritten to investor guidelines. Our correspondent loans are directed to each entity based on the guarantor of the mortgage-backed securities ("MBS") created from the loans: our production focus has been on loans insured or guaranteed by the FHA, VA or USDA for sale into Ginnie Mae-guaranteed MBS, whereas PMT's production focus has been on loans that can be sold into MBS guaranteed by Fannie Mae or Freddie Mac.

This arrangement exists, in part, because PMT is not approved as an issuer of Ginnie Mae-guaranteed MBS. As a result, PMT sells the government-insured or guaranteed loans that it purchases from correspondent sellers to us and we pay PMT a sourcing fee ranging from one to two basis points, generally based on the average number of calendar days that PMT holds the loans before our purchase. We generally pool the government-insured or guaranteed loans into Ginnie Mae guaranteed MBS and then sell such MBS to institutional investors.

In our correspondent production activities, for loans we source for our own account, we earn loan origination fees from the correspondent sellers, interest income on the loans during the time we hold such loans, gains or losses from the date we make a commitment to purchase the loans through the sale of these loans, and, in sales to entities other than PMT, we generally retain and recognize the fair value of the contractual rights to service the loans on behalf of the purchaser of the loans. These contracts are referred to as mortgage servicing rights ("MSRs").

In our loan fulfillment activities in support of PMT's correspondent production activities, we earn fulfillment fees and tax service fees. We may also serve as a correspondent seller of newly originated loans from our consumer direct and broker direct lending channels to PMT under a mortgage loan purchase agreement. When we sell loans to PMT, PMT obtains the mortgage servicing rights relating to such loans. As such, our gains on sale of loans to PMT are primarily cash gains. During our 2017, 2018, 2019 and early 2020 fiscal years, we sold newly originated conventional conforming loans to PMT as PMT had available a selling arrangement that offered us more attractive pricing for certain conventional conforming loans than was otherwise available to us. We ceased such sales to PMT during the second quarter of 2020 as the more attractive pricing was no longer available to us. However, we may in the future enter into other sales arrangements with PMT where such arrangements are attractive to us and approved by the related party matters committees of both companies' boards. Both companies' related party matters committees are comprised of independent directors/trustees from the respective board.

Consumer Direct Lending

Through our consumer direct lending channel, we originate mortgage loans on a national basis. Our consumer direct model relies on the Internet and call center-based staff to acquire and interact with customers across the country. We do not have a "brick and mortar" branch network.

In our consumer direct lending activities, we earn loan origination fees from the borrower, interest income during the time we hold the loan before sale, gains or losses from the date we make a commitment to fund the loan through the sale of these loans, and, in sales to entities other than to PMT, we retain and recognize the fair value of the associated MSRs. To the extent we refinance loans that we subservice for PMT where PMT owns the related MSRs, we are generally required to transfer and convey to PMT a recapture fee payable in cash.

Broker Direct Lending

In broker direct lending, we obtain loan application packages from nonaffiliated mortgage loan brokers, underwrite and fund the resulting loans for sale to PMT or investors. In our broker direct lending activities, we earn interest income, gains or losses from the date we make a commitment to fund the loan through the sale of these loans, and, in sales to entities other than PMT, we retain and recognize the fair value of the associated MSRs.

Our loan production activity is summarized below:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Unpaid principal balance ("UPB") of loans purchased and originated for sale:			
Loans sourced through our correspondent lending channel, from PennyMac Mortgage Investment Trust	\$ 60,540,530	\$ 47,937,306	\$ 36,415,933
Loans sourced through our consumer direct channel	23,491,465	9,752,500	4,650,316
Loans sourced through our broker direct channel	12,168,106	3,841,289	378,544
	96,200,101	61,531,095	41,444,793
UPB of conventional loans fulfilled for PennyMac Mortgage Investment Trust	100,389,252	56,033,704	26,194,303
Total loan production	\$ 196,589,353	\$ 117,564,799	\$ 67,639,096

The effect of our loan production transactions with PMT on our financial statements are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Net gains on loans held for sale at fair value:			
Net gains on loans held for sale to PMT	\$ 81,295	\$ 190,416	\$ 69,359
Mortgage servicing rights and excess servicing spread recapture incurred	(30,614)	(7,051)	(4,776)
	\$ 50,681	\$ 183,365	\$ 64,583
Fulfillment fee revenue	\$ 222,200	\$ 160,610	\$ 81,350
Tax service fees earned from PMT included in <i>Loan origination fees</i>	\$ 23,408	\$ 14,695	\$ 7,433
Sourcing fees paid to PMT included in cost of loans purchased	\$ 11,037	\$ 14,381	\$ 10,925

Loan Servicing

Our loan servicing segment performs loan administration, collection, and default management activities, including the collection and remittance of loan payments; response to customer inquiries; accounting for principal and interest; holding custodial (impounded) funds for the payment of property taxes and insurance premiums; counseling delinquent borrowers; and supervising foreclosures and property dispositions.

We service loans both as the owner of MSRs and as the subservicer on behalf of PMT.

The UPB of our loan servicing portfolio is summarized below:

	December 31,	
	2020	2019
	(in thousands)	
Investor:		
Non-affiliated entities:		
Originated	\$ 199,655,361	\$ 168,842,011
Purchased	41,612,940	59,703,547
	241,268,301	228,545,558
Loans held for sale	11,063,938	4,724,006
Total owned servicing	252,332,239	233,269,564
PennyMac Mortgage Investment Trust	174,418,591	135,414,668
Total	\$ 426,750,830	\$ 368,684,232

Our responsibilities and risks relating to loans we service in arrangements where we own the MSRs or mortgage servicing liabilities (“MSLs”) differ from those where we act as subservicer for the owner of the servicing rights. As the owner of the servicing rights:

- We recognize our investment in the servicing rights received in loan sale transactions where we retain the contractual obligation to service the loans as well the investment we make when we buy MSRs or assume MSLs. We carry these assets and liabilities at fair value and as such they are subject to subsequent changes in fair value owing to the anticipated realization of the cash flows from the asset or liability or to changes in the market for such MSRs and MSLs;
- Because our investment in MSRs can be significant and the fair value of this asset is sensitive to changes in prepayment activity, the cost to service the loans and marketplace return requirements, we incur costs to hedge this investment – primarily the risk of changes in fair value arising from changes in prepayment speeds in response to changes in interest rates; and
- We are responsible for advancing our corporate funds to protect the loan owners’ interest in the collateral securing such loans for such items as hazard insurance, property taxes and foreclosure-related costs, subject to future reimbursement, as well as advancing delinquent principal and interest payments to the MBS holders.

As the subservicer for the owner of servicing rights, we do not carry MSRs or MSLs on our balance sheet and therefore do not recognize changes in the fair value of MSRs or MSLs and are generally not responsible for financing the advance of corporate funds to protect the loan owners’ interest in the collateral securing such loans. As a result, the fees we earn from such arrangements are generally less on a per-loan basis than those we earn from holding MSRs and MSLs.

Following is a summary of our net loan servicing fees:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Net loan servicing fees:			
From non-affiliates:			
Loan servicing fees:			
Contractually specified	\$ 814,646	\$ 730,165	\$ 585,101
Other	116,464	98,564	64,133
	931,110	828,729	649,234
Realization of cash flows	(392,152)	(429,571)	(280,015)
Other changes in fair value of mortgage servicing rights and mortgage servicing liabilities	(1,109,841)	(559,043)	163,671
Hedging results	918,180	395,497	(121,045)
Change in fair value of excess servicing spread financing payable to PennyMac Mortgage Investment Trust	24,970	9,256	(8,500)
	(558,843)	(583,861)	(245,889)
Net loans servicing fees from non-affiliates	372,267	244,868	403,345
From affiliates:			
Loan servicing fees:			
From PennyMac Mortgage Investment Trust	67,181	48,797	42,045
From Investment Funds	—	—	3
Net loans servicing fees from affiliates	67,181	48,797	42,048
Net loan servicing fees	\$ 439,448	\$ 293,665	\$ 445,393

Investment Management

We are an investment manager through our subsidiary, PCM. PCM currently manages PMT and, before 2019, managed the Investment Funds. For these activities, we earn management fees as a percentage of net assets and may earn incentive compensation based on investment performance. During 2018, we completed the liquidation of the Investment Funds.

The net assets of PMT are summarized below:

	December 31,	
	2020	2019
	(in thousands)	
PennyMac Mortgage Investment Trust	\$ 2,296,859	\$ 2,450,916

Human Capital

Our long-term growth and success is highly dependent upon our employees and our ability to maintain a diverse and inclusive workplace that represents a broad spectrum of backgrounds, ideas and perspectives. As part of these efforts, we strive to offer competitive compensation and benefits, foster a community where everyone feels a greater sense of belonging and purpose, and provide employees with the opportunity to give back and make an impact in the communities where we live and serve.

During 2020, our workforce grew from over 4,000 domestic employees as of the fiscal year ended December 31, 2019 to over 6,000 domestic employees as of the fiscal year ended December 31, 2020. At the end of fiscal year 2020, our workforce was 53.3% female and 46.7% male, and the ethnicity of our workforce was 43.7% White, 23.4% Hispanic, 16.8% Black, 10.3% Asian and 5.8% other.

Recruiting and Employee Retention

We believe in attracting, developing and engaging the best talent, while providing a supportive work environment that prioritizes the health and safety of our employees. Our compensation programs are designed to motivate and reward employees who possess the necessary skills to support our business strategy and create long-term value for our stockholders. Employee compensation may include base salary, annual cash incentives, and long-term equity incentives, as well as life and health insurance and 401(k) plan matching contributions.

Employees receive regular training to help further enhance their career development objectives and we also actively manage an enterprise-wide mentoring program. We have partnered with an external vendor to establish a comprehensive, fully integrated wellness program designed to enhance the productivity of our employees. We also support the U.S. military through our continued focus on recruiting and creating opportunities for veterans. For example, we established the Veterans Engaging Mentorships, Relationships, and Growth program to further our efforts to hire, support, and create a community of veterans and veteran families.

Diversity and Inclusion

We believe that building a diverse and inclusive, high-performing workforce where our employees bring varied perspectives and experiences to work every day creates a positive influence in our workplace, community and business operations. Our Board of Directors, our Nominating and Corporate Governance Committee and our Risk Committee provide regular oversight on our corporate sustainability, diversity and inclusion programs and initiatives. During 2020, we established leadership goals and created customized initiatives that focused on our continued effort to increase the number of women and underrepresented minorities in management positions throughout our company and its business divisions. As it relates to gender diversity, we established the Women Empowering Mentorships, Relationships, and Growth program to emphasize career growth, networking, and learning opportunities for women at the management level. We also foster a more inclusive culture through a variety of other diversity and inclusion initiatives, including corporate training, special events, community outreach and corporate philanthropy.

Community Involvement

We have a corporate philanthropy program that is governed by a philosophy of giving that prioritizes the support of causes and issues that are important in our local communities, and drives a culture of employee engagement and collaboration throughout our organization. We are committed to empowering our employees to be a positive influence in the communities where we live and serve, and believe that this commitment supports our efforts to attract and engage employees and improve retention. During the 2020 fiscal year, we established a separate donor advised fund to facilitate donations to various local and national charitable organizations.

U.S. Mortgage Market

The U.S. residential mortgage market is one of the largest financial markets in the world, with approximately \$11.5 trillion of outstanding debt as of September 30, 2020. According to Inside Mortgage Finance, first lien mortgage loan origination volume was approximately \$4.0 trillion in 2020. Many of the largest financial institutions, primarily banks which have traditionally held the majority of the market share in mortgage origination and servicing, have reduced their participation in the mortgage market creating opportunities for non-bank participants.

The residential mortgage industry is characterized by high barriers to entry, including the necessity for approvals required to sell loans to and service loans for the Agencies, state licensing requirements for non-federally chartered banks, sophisticated infrastructure, technology, risk management, and processes required for successful operations, and financial capital requirements.

Our Growth Strategies

Our growth strategies include:

Growing Consumer Direct Lending through Portfolio Recapture and Non-Portfolio Originations

We expect to grow our consumer direct lending business by leveraging our growing servicing portfolio through recapture of existing customers for refinance and purchase-money loans as well as increasing our non-portfolio originations. As our servicing portfolio grows, we will have a greater number of leads to pursue, which we believe will lead to greater origination activity through our consumer direct business. As of December 31, 2020, we serviced 1.9 million loans. At the same time, we are making significant investments in technology, personnel and marketing to increase our non-portfolio originations. We believe that our national call center model and our technology will enable us to drive origination process efficiencies and best-in-class customer service.

Growing Broker Direct Lending

The broker lending channel involves the underwriting and funding of mortgage loans sourced by mortgage loan brokers and other financial intermediaries. According to Inside Mortgage Finance, the broker lending channel represented approximately 14% of U.S. residential mortgage originations in 2020. In 2020, 2019 and 2018, we funded \$12.2 billion, \$3.8 billion and \$378.5 million of mortgage loans, respectively, through our broker direct channel. We plan on growing our mortgage loan volume by adding broker relationships and offering our mortgage loan brokers access to our technology through a dedicated portal.

Growing Correspondent Production through Expanding Seller Relationships and Adding Products and Services

We expect to grow our correspondent production business by expanding the number and types of sellers from which we purchase loans and increasing the volume of loans that we purchase from our sellers as we continue to expand to the loan products and services we offer. Over the past several years, a number of large banks have exited or reduced the size of their correspondent production businesses, creating an opportunity for non-bank entities to gain market share. We believe that we are well positioned to continue taking advantage of this opportunity based on our management expertise in the correspondent production business, our relationships with correspondent sellers, and our supporting systems and processes.

Growing our Mortgage Loan Servicing Portfolio

We expect to focus the growth of our servicing portfolio on loan production activities, as our correspondent government-insured production and consumer and broker direct lending add new servicing for owned MSR, and correspondent conventional production adds new subservicing. In 2020, our correspondent, consumer direct and broker direct loan production totaled \$196.6 billion in UPB. We may supplement our organic growth with MSR acquisitions, some of which may be concentrated in delinquent or defaulted loans for which we have expertise in servicing. We have acquired MSRs both from large mortgage servicers and independent mortgage bankers, which may sell MSRs due to continuing operational and regulatory and capital pressures. In 2020, we purchased MSRs relating to approximately \$2.4 billion in UPB of underlying loans.

Expansion into New Markets and Products

We regularly evaluate opportunities to grow our business, including expansion into new markets. We also continue to develop new products to satisfy demand from customers in each of our production channels and respond to changing circumstances in the market for mortgage-related financing.

Compliance and Regulatory

Our business is subject to extensive federal, state and local regulation. The CFPB was established on July 21, 2010 under Title X of the Dodd-Frank Wall Street Reform and Consumer Protection Act. The CFPB is responsible for ensuring consumers are provided with timely and understandable information to make responsible decisions about financial transactions, federal consumer financial laws are enforced and consumers are protected from unfair, deceptive, or abusive acts and practices and from discrimination. Although the CFPB's actions may improve consumer protection, such actions also have resulted in a meaningful increase in costs to consumers and financial services companies including mortgage originators and servicers.

Our loan production and loan servicing operations are regulated at the state level by state licensing authorities and administrative agencies. We, along with certain PennyMac employees who engage in regulated activities, must apply for licensing as a mortgage banker or lender, loan servicer and debt collector pursuant to applicable state law. These state licensing requirements typically require an application process, the payment of fees, background checks and administrative review. Our servicing operations are licensed (or exempt or otherwise not required to be licensed) to service mortgage loans in all 50 states, the District of Columbia, Guam and the U.S. Virgin Islands. Our consumer direct lending business is licensed to originate loans in 49 states and the District of Columbia. From time to time, we receive requests from states and Agencies and various investors for records, documents and information regarding our policies, procedures and practices regarding our loan production and loan servicing business activities, and undergo periodic examinations by federal and state regulatory agencies. We incur significant ongoing costs to comply with these licensing and examination requirements.

The Secure and Fair Enforcement for Mortgage Licensing Act of 2008 (the "SAFE Act") requires all states to enact laws that require all individuals acting in the United States as mortgage loan originators to be individually licensed or registered if they intend to offer mortgage loan products. These licensing requirements include enrollment in the Nationwide Mortgage Licensing System, application to state regulators for individual licenses and the completion of pre-licensing education, annual education and the successful completion of both national and state exams.

We must comply with a number of federal consumer protection laws, including, among others:

- the Real Estate Settlement Procedures Act ("RESPA"), and Regulation X thereunder, which require certain disclosures to mortgagors regarding the costs of mortgage loans, the administration of tax and insurance escrows, the transferring of servicing of mortgage loans, the response to consumer complaints, and payments between lenders and vendors of certain settlement services;
- the Truth in Lending Act ("TILA"), and Regulation Z thereunder, which require certain disclosures to mortgagors regarding the terms of their mortgage loans, notices of sale, assignments or transfers of

ownership of mortgage loans, new servicing rules involving payment processing, and adjustable rate mortgage change notices and periodic statements;

- the Equal Credit Opportunity Act and Regulation B thereunder, which prohibit discrimination on the basis of age, race and certain other characteristics, in the extension of credit;
- the Fair Housing Act, which prohibits discrimination in housing on the basis of race, sex, national origin, and certain other characteristics;
- the Home Mortgage Disclosure Act and Regulation C thereunder, which require financial institutions to report certain public loan data;
- the Homeowners Protection Act, which requires the cancellation of private mortgage insurance once certain equity levels are reached, sets disclosure and notification requirements, and requires the return of unearned premiums;
- the Servicemembers Civil Relief Act, which provides, among other things, interest and foreclosure protections for service members on active duty;
- the Gramm-Leach-Bliley Act and Regulation P thereunder, which require us to maintain privacy with respect to certain consumer data in our possession and to periodically communicate with consumers on privacy matters;
- the Fair Debt Collection Practices Act, which regulates the timing and content of debt collection communications;
- the Fair Credit Reporting Act and Regulation V thereunder, which regulate the use and reporting of information related to the credit history of consumers;
- the National Flood Insurance Reform Act of 1994, which provides for lenders to require from borrowers or to purchase flood insurance on behalf of borrower/owners of properties in special flood hazard areas; and
- the CARES Act, which allows borrowers with federally-backed loans to request temporary payment forbearance in response to the increased borrower hardships resulting from the ongoing COVID-19 pandemic.

Many of these laws are further impacted by the SAFE Act and implementation of new rules by the CFPB.

Our senior management team has established a comprehensive compliance management system ("CMS") that is designed to ensure compliance with applicable mortgage origination and servicing laws and regulations. The components of our CMS include: (a) oversight by senior management and our Board of Directors to ensure that our compliance culture, guidance, and resources are appropriate; (b) a compliance program to ensure that our policies, training and monitoring activities are complete and comprehensive; (c) a complaint management program to ensure that consumer complaints are appropriately addressed and that any required actions are implemented on a timely basis; and (d) independent oversight to ensure that our CMS is functioning as designed.

An important component of the CMS is management's Mortgage Regulatory Compliance Committee ("MRCC"). This committee oversees the CMS and supports our cultural initiatives that reinforce the importance of regulatory compliance. The MRCC also monitors changes in the internal and external environment, approves mortgage compliance policies, monitors compliance with those policies and ensures any required remediation is implemented on a timely basis. The MRCC has identified individuals throughout the organization to oversee specific areas of compliance. MRCC membership includes senior management from all areas of the Company impacted by mortgage compliance laws and regulations. The MRCC meets on a regular basis throughout the year.

Intellectual Property

We rely on a combination of trademarks, copyrights, and trade secrets, as well as confidentiality and contractual provisions to protect our intellectual property and proprietary technologies. We hold various registered trademarks, including trademarks with respect to the name PennyMac®, the swirl design and rooftop design appearing in certain PennyMac drawings and logos and various additional designs and word marks relating to the PennyMac name. Depending upon the jurisdiction, trademarks generally are valid as long as they are in use and/or their registrations are properly maintained. We generally intend to renew our trademarks as they come up for renewal. Our other intellectual property includes proprietary know-how and technological innovations, such as our proprietary workflow driven cloud based servicing system, as well as proprietary pricing engines, loan-level analytics systems and other trade secrets that we have developed to maintain our competitive position.

Competition

Given the diverse and specialized nature of our businesses, we do not believe we have a direct competitor for the totality of our business. We compete with a number of nationally-focused companies in each of our businesses.

In our loan production and servicing segments, we compete with large financial institutions and with other independent residential mortgage loan producers and servicers, such as Wells Fargo, JP Morgan Chase, Rocket Mortgage, Mr. Cooper and United Wholesale Mortgage. In our loan production segment, we compete primarily on the basis of product offerings, technical knowledge, manufacturing quality, speed of execution, rate and fees. In our servicing segment, we compete primarily on the basis of experience in the residential loan servicing business, quality and efficiency of execution and servicing performance. In our investment management segment, we compete for capital with both traditional and alternative investment managers. We compete primarily on the basis of historical track record of risk-adjusted returns, experience of investment management team, the return profile of prospective investment opportunities and on the level of fees and expenses.

Available Information

Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, proxy statements and amendments to those reports filed with or furnished to the SEC pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), are available free of charge through the investor relations section of our website at www.pennymacfinancial.com as soon as reasonably practicable after electronically filing such material with the SEC. The SEC maintains an Internet site that contains reports, proxy and information statements and other information regarding our filings at www.sec.gov. The above references to our website and the SEC’s website do not constitute incorporation by reference of the information contained on those websites and should not be considered part of this document.

Item 1A. Risk Factors

Summary Risk Factors

We are subject to a number of risks that, if realized, could have a material adverse effect on our business, financial condition, liquidity, results of operations and our ability to make distributions to our shareholders. Some of our more significant challenges and risks include, but are not limited to, the following, which are described in greater detail below:

- Our business, financial condition and results of operations may be adversely affected by the ongoing COVID-19 pandemic.
- Failure to successfully modify, resell or refinance early buyout loans or defaults of the early buyout loans beyond expected levels may adversely affect our business, financial condition, liquidity and results of operations.
- We operate in a highly regulated industry and the continually changing federal, state and local laws and regulations could materially and adversely affect our business, financial condition, liquidity and results of operations.
- New CFPB or state rules and regulations and more stringent enforcement of existing rules and regulations by the CFPB or state regulators could result in enforcement actions, fines, penalties and the inherent reputational risk that results from such actions.
- We are highly dependent on U.S. government-sponsored entities and government agencies, and any changes in these entities, their current roles or the leadership at such entities or their regulators could materially and adversely affect our business, financial condition, liquidity and results of operations.
- Our business prospects, financial condition, liquidity and results of operations could be adversely impacted by the CFPB's final General Qualified Mortgage ("QM") loan rule for certain GSE eligible loans and its impact on the ability to repay rules.
- We are required to hold various Agency approvals in order to conduct our business and there is no assurance that we will be able to obtain or maintain those Agency approvals or that changes in Agency guidelines will not materially and adversely affect our business, financial condition, liquidity and results of operations.
- Our mortgage banking revenues are highly dependent on macroeconomic factors and real estate market, mortgage market and financial market conditions.
- We may not be able to effectively manage significant increases or decreases in our loan production volume, which could negatively affect our business, financial condition, liquidity and results of operations.
- We have a substantial amount of indebtedness, which may limit our financial and operating activities, expose us to substantial increases in costs due to interest rate fluctuations, expose us to the risk of default under our debt obligations and may adversely affect our ability to incur additional debt to fund future needs.
- We rely on external financial arrangements to fund mortgage loans and operate our business and our inability to refinance or enter new financial arrangements could be detrimental to our business.
- Our earnings may decrease because of changes in prevailing interest rates.
- Increases in delinquencies and defaults may adversely affect our business, financial condition, liquidity and results of operations.
- A disruption in the MBS market could materially and adversely affect our business, financial condition, liquidity and results of operations.
- We are required to make servicing advances that can be subject to delays in recovery or may not be recoverable in certain circumstances, which could adversely affect our business, financial condition, liquidity and results of operations.
- We depend on counterparties and vendors to provide services that are critical to our business, which subjects us to a variety of risks.
- Our failure to appropriately address various issues that may give rise to reputational risk could cause harm to our business and adversely affect our earnings.
- We rely on PennyMac Mortgage Investment Trust ("PMT") as a significant source of financing for, and revenue related to, our mortgage banking business, and the termination of, or material adverse change in,

the terms of this relationship, or a material adverse change to PMT or its operations, could adversely affect our business, financial condition, liquidity and results of operations.

- A significant portion of our loan servicing operations are conducted pursuant to subservicing contracts with PMT, and any termination by PMT of these contracts, or a material change in the terms thereof that is adverse to us, would adversely affect our business, financial condition, liquidity and results of operations.
- Market conditions could reduce the fair value of the assets that we manage, which would reduce our management and incentive fees.
- Our failure to comply with the extensive amount of regulation applicable to our investment management segment could materially and adversely affect our business, financial condition, liquidity and results of operations.
- We may encounter conflicts of interest in trying to appropriately allocate our time and services between activities for our own account and for PMT, or in trying to appropriately allocate investment opportunities among ourselves and for PMT.
- Our risk management efforts may not be effective.
- Initiating new business activities, developing new products or significantly expanding existing business activities may expose us to new risks and increase our cost of doing business.
- Cybersecurity risks, cyber incidents and technology failures may adversely affect our business by causing a disruption to our operations, a compromise or corruption of our confidential information, and/or damage to our business relationships, all of which could negatively impact our financial results.
- The industry in which we operate is highly competitive, and is likely to become more competitive, and decreased margins resulting from increased competition or our inability to compete successfully could adversely affect our business, financial condition, liquidity and results of operations.

Risk Factors

In addition to the other information set forth in this Report, you should carefully consider the following factors, which could materially adversely affect our business, financial condition, liquidity and results of operations in future periods. The risks described below are not the only risks that we face. Additional risks not presently known to us or that we currently deem immaterial may also materially adversely affect our business, financial condition, liquidity and results of operations in future periods.

Risks Related to Our Mortgage Banking Segment

Regulatory Risks

Our business, financial condition and results of operations may be adversely affected by the ongoing COVID-19 pandemic.

The COVID-19 pandemic has created unprecedented economic, financial and public health disruptions that have adversely affected, and are likely to continue to adversely affect, our business, financial condition and results of operations. The extent to which COVID-19 continues to negatively affect our business, financial condition and results of operations will depend on future developments, which are highly uncertain and cannot be predicted, including the scope and duration of the pandemic and actions taken by governmental authorities and other third parties in response to COVID-19.

The federal government enacted the CARES Act, which allows borrowers with federally-backed loans to request temporary payment forbearance in response to the increased borrower hardships resulting from the ongoing COVID-19 pandemic. The initial forbearance period is 180 days, subject to another 180 days extension. In addition, in February 2021 the federal government announced an additional extension of three to six months depending on loan type. As a result of the CARES Act forbearance requirements, we expect to experience continued elevated delinquencies in our servicing portfolio that may require us to finance substantial amounts of advances of principal and interest payments to the investors holding those loans, as well as advances of property taxes, insurance premiums and other expenses to protect investors'

interests in the properties securing the loans. In fiscal year 2020, elevated prepayment activity was sufficient to cover principal and interest payment advances required under the CARES Act, however, in the future elevated prepayment activity may be insufficient to cover required principal and interest advances. We also expect the effects of the CARES Act forbearance requirements to reduce our servicing fee income and increase our servicing expenses due to the increased number of delinquent loans, significant levels of forbearance that we have granted and continue to grant, as well as the resolution of loans that we expect to ultimately default as the result of the ongoing COVID-19 pandemic. Future servicing advances will be driven by the number of borrower delinquencies, including those resulting from payment forbearance; the amount of time borrowers remain delinquent; and the level of successful resolution of delinquent payments, all of which will be impacted by the pace at which the economy recovers from the ongoing COVID-19 pandemic. As of December 31, 2020, 7.2% of loans in our predominantly government-insured or guaranteed MSR portfolio were in forbearance plans and delinquent resulting in an increase in the level of servicing advances we have been required to make due to borrower delinquencies. Servicing advances resulting from COVID-19 could have a significant adverse impact on our cash flows and could also have a detrimental effect on our business and financial condition.

Financial markets have experienced substantial volatility and reduced liquidity, resulting in unprecedented federal government intervention to lower the federal funds rate to near zero and support market liquidity by purchasing assets in many financial markets, including the mortgage-backed securities market. The CARES Act forbearance requirements and the decline in interest rates have negatively impacted the fair value of our servicing assets. In addition, the CARES Act forbearance requirements and the decline in the value of financial assets linked to consumer credit performance in early 2020 caused PMT to report material losses and negatively affected PMT's shareholders' equity and net assets under management. Consequently, we experienced a reduction in our base management fees from PMT in fiscal year 2020. Further market volatility or economic weakness may result in additional declines in the value of our servicing assets, lower base management fees and make it increasingly difficult to optimize our hedging activities. Also, our liquidity and/or regulatory capital could be adversely impacted by volatility and disruptions in the capital and credit markets. In addition, if we fail to meet or satisfy any of the covenants in our repurchase agreements or other financing arrangements as a result of the impact of the COVID-19 pandemic, we would be in default under these agreements, which could result in a cross-default or cross-acceleration under other financing arrangements, and our lenders could elect to declare outstanding amounts due and payable (or such amounts may automatically become due and payable), terminate their commitments, require the posting of additional collateral and enforce their respective interests against existing collateral.

We may also have difficulty accessing debt and equity capital on attractive terms, or at all, as a result of the impact of the COVID-19 pandemic, which may adversely affect our access to capital necessary to fund our operations or address maturing liabilities on a timely basis. This includes renewals of our existing credit facilities with our lenders who may be adversely impacted by the volatility and dislocations in the financial markets and may not be willing or able to continue to extend us credit on the same terms, or on favorable terms, or at all.

In addition, our business could be disrupted if we are unable to operate due to changing governmental restrictions such as travel bans and quarantines placed or reinstituted on our employees or operations, including, successfully operating our business from remote locations, ensuring the protection of our employees' health and maintaining our information technology infrastructure.

Federal, state, and local executive, legislative and regulatory responses to the ongoing COVID-19 pandemic are rapidly evolving, may be inconsistent and conflict in scope or application, and may be subject to change without advance notice. These regulatory responses may impose additional compliance obligations, may extend existing CARES Act forbearance requirements and delay our licensing efforts, which may negatively impact our business. In addition, the CARES Act and other federal, state and local regulations are subject to interpretation given the existing ambiguities in the rules and regulations, which may result in future class action and other litigation risk.

Governmental authorities have taken additional measures to stabilize the financial markets and support the economy including providing monetary relief and extending foreclosure and eviction moratoria. The outcome of these measures are unknown and they may not be sufficient to address future market dislocations or avert severe and prolonged reductions in economic activity. We may also face increased risks of disputes with our business partners, litigation and governmental and regulatory scrutiny as a result of the effects of the COVID-19 pandemic. The scope and duration of the COVID-19 pandemic and the efficacy of the extraordinary measures put in place to address it are currently unknown. Even

after the COVID-19 pandemic subsides, the economy may not fully recover for some time and we may be materially and adversely affected by a prolonged recession or economic downturn.

To the extent the COVID-19 pandemic adversely affects our business, financial condition and results of operations, it may also have the effect of heightening many of the other risks described in this Item 1A.

Failure to successfully modify, resell or refinance early buyout loans or defaults of the early buyout loans beyond expected levels may adversely affect our business, financial condition, liquidity and results of operations.

The ongoing COVID-19 pandemic has significantly increased the number of Ginnie Mae loans that are seriously delinquent in our Ginnie Mae MSR portfolio. As a mortgage servicer, we have an early buyout repurchase option (“EBOs”) for loans at least three months delinquent in our Ginnie Mae MSR portfolio. During the year ended December 31, 2020, we have repurchased \$9.6 billion delinquent Ginnie Mae loans from our Ginnie Mae MSR portfolio. Purchasing delinquent Ginnie Mae loans provides us with an alternative to our mortgage servicing obligation of advancing principal and interest at the coupon rate of the related Ginnie Mae security. While our EBO program reduces the cost of servicing the Ginnie Mae loans, it may also accelerate loss recognition when the loans are repurchased because we are required to write off accumulated non-reimbursable interest advances and other costs. In addition, after purchasing the delinquent Ginnie Mae loans, we expect to resecuritize many of the delinquent loans into another Ginnie Mae guaranteed security upon the delinquent loans becoming current either through the borrower’s reperformance or through the completion of a loan modification; however, there is no guarantee that any delinquent loan will reperform or be modified. The ongoing COVID-19 pandemic as well as changing government regulations, including Ginnie Mae’s 2020 regulations requiring reperforming loan borrowers to make six months of timely payments in certain circumstances before a loan can be repooled into another Ginnie Mae guaranteed security, has made estimating the loan amounts expected to be modified, resold or refinanced more difficult. Failure to successfully modify, resell or refinance our repurchased Ginnie Mae loans or if a significant portion of the repurchased Ginnie Mae loans default may adversely affect our business, financial condition, liquidity and results of operations.

We operate in a highly regulated industry and the continually changing federal, state and local laws and regulations could materially and adversely affect our business, financial condition, liquidity and results of operations.

We are required to comply with a wide array of federal, state and local laws and regulations that regulate, among other things, the manner in which we conduct our businesses. These regulations directly impact our business and require constant compliance, monitoring and internal and external audits and examinations by federal and state regulators. Our failure to operate effectively and in compliance with any of these laws, regulations and rules could subject us to lawsuits or governmental actions and damage our reputation, which could materially and adversely affect our business, financial condition, liquidity and results of operations. In addition, our failure to comply with these laws, regulations and rules may result in increased costs of doing business, reduced payments by borrowers, modification of the original terms of mortgage loans, permanent forgiveness of debt, delays in the foreclosure process, increased servicing advances, litigation, reputational damage, enforcement actions, and repurchase and indemnification obligations. Further, we may be required to pay substantial penalties imposed by our regulators due to compliance errors, or we may lose our licenses to originate and/or service loans.

The failure of our correspondent sellers to comply with any applicable laws, regulations and rules may also result in these adverse consequences. We have in place a due diligence program designed to assess areas of risk with respect to loans we acquire from such correspondent sellers. However, we may not detect every violation of law and, to the extent any correspondent sellers, third party originators, servicers or brokers with whom we do business fail to comply with applicable laws or regulations and any of their mortgage loans or MSRs become part of our assets, it could subject us, as an assignee or purchaser of the related mortgage loans or MSRs, to monetary penalties or other losses. While we may have contractual rights to seek indemnity or repurchase from certain of these lenders, third party originators, servicers or brokers, if any of them are unable to fulfill their indemnity or repurchase obligations to us to a material extent, our business, liquidity, financial condition and results of operations could be materially and adversely affected. Our service providers and other vendors are also required to operate in compliance with applicable laws, regulations and rules. Our failure to adequately manage service providers and other vendors to mitigate risks of noncompliance with applicable laws may also have these negative results.

The recent outcome of the 2020 U.S. Presidential and Congressional elections could result in significant policy changes or regulatory uncertainty in our industry and may also result in increased regulatory scrutiny and enforcement actions. While it is not possible to predict when and whether significant policy or regulatory changes would occur, any such changes on the federal, state or local level could significantly impact, among other things, our operating expenses, the availability of mortgage financing, interest rates, consumer spending, the economy and the geopolitical landscape. To the extent that the new government administration takes action by proposing and/or passing regulatory policies that could have a negative impact on our industry, such actions may have a material adverse effect on our business, financial condition and results of operations.

The Financial Stability Oversight Council (“FSOC”) and Conference of State Bank Supervisors (“CSBS”) have been reviewing whether state chartered nonbank mortgage servicers should be subject to “safety and soundness” standards similar to those imposed by federal law on insured depository institutions, even though nonbank mortgage servicers do not have any federally insured deposit accounts. For example, on September 29, 2020, the CSBS released proposed prudential standards for state oversight of nonbank mortgage servicers. The proposed CSBS prudential standards would include revised minimum net worth, capital ratio and liquidity standards similar to existing FHFA requirements and would require servicers to maintain sufficient allowable assets to cover normal operating expenses in addition to the amounts required for servicing expenses. In addition, the FSOC has encouraged state regulators to work to develop prudential and corporate governance standards for nonbank mortgage servicers and has issued guidance describing the process FSOC would follow if it were to consider making a determination to subject a nonbank financial company to supervision by the Board of Governors of the Federal Reserve System and prudential standards. To the extent any such state regulators impose new minimum net worth, capital ratio and liquidity standards that are overly burdensome, such actions may have a material adverse effect on our business, financial condition and results of operations.

New CFPB or state rules and regulations or more stringent enforcement of existing rules and regulations by the CFPB or state regulators could result in enforcement actions, fines, penalties and the inherent reputational risk that results from such actions.

The CFPB has regulatory authority over certain aspects of our business as a result of our residential mortgage banking activities, including, without limitation, the authority to conduct investigations, bring enforcement actions, impose monetary penalties, require remediation of practices, pursue administrative proceedings or litigation, and obtain cease and desist orders for violations of applicable federal consumer financial laws. Although there was a decline in enforcement actions by the CFPB under the prior federal administration, examinations by state regulators and enforcement actions in the residential mortgage and servicing sectors by state attorneys general have increased and may continue to increase under the incoming federal administration. Failure to comply with the CFPB and state laws, rules or regulations to which we are subject, whether actual or alleged, could have a material adverse effect on our business, liquidity, financial condition and results of operations.

Our failure to comply with the laws, rules or regulations to which we are subject, whether actual or alleged, would expose us to fines, penalties or potential litigation liabilities, including costs, settlements and judgments, any of which could have a material adverse effect on our business, liquidity, financial condition and results of operations and our

ability to make distributions to our shareholders.

We are highly dependent on U.S. government-sponsored entities and government agencies, and any changes in these entities, their current roles or the leadership at such entities or their regulators could materially and adversely affect our business, financial condition, liquidity and results of operations.

Our ability to generate revenues through mortgage loan sales depends on programs administered by GSEs, such as Fannie Mae and Freddie Mac, government agencies, including Ginnie Mae, and others that facilitate the issuance of mortgage-backed securities (“MBS”), in the secondary market. Presently, almost all of the newly originated loans that we originate directly with borrowers or assist PMT in acquiring from mortgage lenders through our correspondent production activities qualify under existing standards for inclusion in MBS issued by Fannie Mae or Freddie Mac or guaranteed by Ginnie Mae. We, or PMT, also derive other material financial benefits from our Agency relationships, including the ability to avoid certain loan inventory finance costs through streamlined loan funding and sale procedures.

A number of legislative proposals have been introduced in recent years that would wind down or phase out the GSEs, including a proposal by the prior federal administration to end the conservatorship and privatize Fannie Mae and Freddie Mac. On November 18, 2020 the FHFA finalized new regulatory capital rules for Fannie Mae and Freddie Mac that requires them to increase their capital to \$280 billion. FHFA did not specify how the new regulatory capital requirements will be achieved or a timeframe for meeting the capital target, however, any increase in guaranty fees or other costs imposed by Fannie Mae and Freddie Mac to raise additional capital may have a negative impact on the mortgage market and could reduce Fannie Mae and Freddie Mac’s future role in the mortgage industry. It is not possible to predict the scope and nature of the actions that the U.S. government, including the new incoming federal administration, will ultimately take with respect to the GSEs. Any changes in laws and regulations affecting the relationship between Fannie Mae and Freddie Mac and their regulators or the U.S. federal government, and any changes in leadership at these entities, could adversely affect our business and prospects. Any discontinuation of, or significant reduction in, the operation of Fannie Mae or Freddie Mac or any significant adverse change in their capital structure, financial condition, activity levels in the primary or secondary mortgage markets or in underwriting criteria could materially and adversely affect our business, financial condition, liquidity and results of operations and our ability to make distributions to our shareholders.

Elimination of the traditional roles of Fannie Mae and Freddie Mac, or any changes to the nature or extent of the guarantees provided by Fannie Mae and Freddie Mac or the fees, terms and guidelines that govern our selling and servicing relationships with them, could also materially and adversely affect our ability to sell and securitize loans through our loan production segment, and the performance, liquidity and market value of our investments. Our ability to generate revenues from newly originated loans that we assist PMT in acquiring through its correspondent production business would be similarly affected. Moreover, any changes to the nature of the GSEs or their guarantee obligations could redefine what constitutes an Agency MBS and could have broad adverse implications for the market and our business, financial condition, liquidity and results of operations.

Our ability to generate revenues from newly originated loans that we assist PMT in acquiring through its correspondent production business is also highly dependent on the fact that the Agencies have not historically acquired such loans directly from mortgage lenders, but have instead relied on banks and non-bank aggregators such as us to acquire, aggregate and securitize or otherwise sell such loans to investors in the secondary market. Certain of the Agencies have approved new and smaller lenders that traditionally may not have qualified for such approvals. To the extent that these mortgage lenders choose to sell directly to the Agencies rather than through loan aggregators like us, the number of loans available for purchase by aggregators is reduced, which could materially and adversely affect our business and results of operations. Similarly, to the extent the Agencies increase the number of purchases and sales for their own accounts, our business and results of operations could be materially and adversely affected.

Our business prospects, financial condition, liquidity and results of operations could be adversely impacted by the CFPB’s final General Qualified Mortgage (“QM”) loan rule for certain GSE eligible loans and its impact on the ability to repay rules.

The Dodd-Frank Act provides that a lender must make “a reasonable, good faith determination” of each

borrower's ability to repay a loan, but may presume that a borrower will be able to repay a loan if such loan has certain characteristics that meet the QM definition. The CFPB adopted its QM definition that establishes rigorous underwriting and product feature requirements for a loan to be deemed a QM. Within those regulations, the CFPB created a special exemption for the GSEs that is generally referred to as the "QM patch," which allows any GSE-eligible loan to be deemed a QM. The QM patch effectively provides QM designation for GSE eligible loans that have a debt-to-income ratio in excess of 43%, which represents a meaningful portion of the loans currently purchased by the GSEs. Without the QM patch or an alternative, loans with debt-to-income ratios above 43% would not be designated as QMs unless they were insured by a federal agency such as the FHA or VA, which have each adopted their own QM definition that does not currently have a debt-to-income ratio limitation. In October 2020, the CFPB issued a rule providing that the QM patch will expire on the earlier of the implementation of a final amendment revising the "General QM loan" definition or upon the date that the GSEs exit conservatorship. On December 11, 2020, the CFPB issued final General QM loan rules replacing the debt-to-income ratio limitations with a price-based approach that may have significant implications for the U.S. housing and mortgage market since we do not know how the credit markets and borrowers will respond to the new regulations. Failure to establish effective operational procedures to comply with the final General QM loan rules could materially and adversely affect our business, financial condition, liquidity and results of operations.

We are required to hold various Agency approvals in order to conduct our business and there is no assurance that we will be able to obtain or maintain those Agency approvals or that changes in Agency guidelines will not materially and adversely affect our business, financial condition, liquidity and results of operations.

We are required to hold certain Agency approvals in order to sell mortgage loans to the Agencies and service such mortgage loans on their behalf. Our failure to satisfy the various requirements necessary to obtain and maintain such Agency approvals over time would restrict our direct business activities and could materially and adversely impact our business, financial condition, liquidity and results of operations.

We are also required to follow specific guidelines that impact the way that we originate and service Agency loans. A significant change in these guidelines that has the effect of decreasing the fees we charge or requires us to expend additional resources in providing mortgage services could decrease our revenues or increase our costs, which would also adversely affect our business, financial condition, liquidity and results of operations.

In addition, the FHFA has directed the GSEs to align their guidelines for servicing delinquent mortgages and assess compensatory penalties against servicers in connection with the failure to meet specified timelines relating to delinquent loans and foreclosure proceedings, and other breaches of servicing obligations. Our failure to operate efficiently and effectively within the prevailing regulatory framework and in accordance with the applicable origination and servicing guidelines and/or the loss of our seller/servicer license approval or approved issuer status with the Agencies could result in our failure to benefit from available monetary incentives and/or expose us to monetary penalties and curtailments, all of which could materially and adversely affect our business, financial condition, liquidity and results of operations.

Our inability to meet certain net worth and liquidity requirements imposed by the Agencies could have a material adverse effect on our business, financial condition, liquidity and results of operation.

We are subject to minimum financial eligibility requirements established by the Agencies. These minimum financial requirements, which are described in *Liquidity and Capital Resources*, include net worth, capital ratio and/or liquidity criteria in order to set a minimum level of capital needed to adequately absorb potential losses and a minimum amount of liquidity needed to service Agency mortgage loans and MBS and cover the associated financial obligations and risks.

In order to meet these minimum financial requirements, we are required to maintain cash and cash equivalents in amounts that may adversely affect our business, financial condition, liquidity and results of operations, which could significantly impede us from growing our business and place us at a competitive disadvantage in relation to federally chartered banks and certain other financial institutions. To the extent that such minimum financial requirements are not met, the Agencies may suspend or terminate our Agency approvals or agreements, which could cause us to cross default under financing arrangements and/or have a material adverse effect on our business, financial condition liquidity and results of operations.

The failure of PennyMac Loan Services, LLC to avail itself of an appropriate exemption from registration as an investment company under the Investment Company Act of 1940 could have a material and adverse effect on our business.

We intend to operate so that we, and each of our subsidiaries, are not required to register as investment companies under the Investment Company Act of 1940, as amended, or the Investment Company Act. We believe that our subsidiary, PennyMac Loan Services, LLC (“PLS”), qualifies for one or more exemptions provided in the Investment Company Act because of the historical and current composition of its assets and income; however, there can be no assurances that the composition of PLS’ assets and income will remain the same over time such that one or more exemptions will continue to be applicable.

If PLS is required to register as an investment company, we would be required to comply with a variety of substantive requirements under the Investment Company Act that impose, among other things: limitations on capital structure; restrictions on specified investments; prohibitions on transactions with affiliates; compliance with reporting, record keeping, voting and proxy disclosure; and, other rules and regulations that would significantly increase our operating expenses. Further, if PLS was or is required to register as an investment company, PLS would be in breach of various representations and warranties contained in its credit and other agreements resulting in a default as to certain of our contracts and obligations. This could also subject us to civil or criminal actions or regulatory proceedings, or result in a court appointed receiver to take control of us and liquidate our business, any or all of which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

Liability relating to environmental matters may impact the value of properties that we may acquire or the properties underlying our investments.

Under various U.S. federal, state and local laws, an owner or operator of real property may become liable for the costs of removal of certain hazardous substances released on its property. These laws often impose liability without regard to whether the owner or operator was responsible for, or aware of, the release of such hazardous substances. The presence of hazardous substances may also adversely affect an owner’s ability to sell real estate, borrow using real estate as collateral or make debt payments to us. In addition, if we take title to a property, the presence of hazardous substances may adversely affect our ability to sell the property, and we may become liable to a governmental entity or to third parties for various fines, damages or remediation costs. Any of these liabilities or events may materially and adversely affect the fair value of the relevant asset and/or our business, financial condition, liquidity and results of operations.

Market and Financial Risks

Our mortgage banking revenues are highly dependent on macroeconomic factors and real estate market, mortgage market and financial market conditions.

The success of our business strategies and our results of operations are materially affected by current or future conditions in the real estate market, mortgage markets, financial markets and the economy generally. Factors such as the COVID-19 pandemic, inflation, deflation, unemployment, personal and business income taxes, healthcare, energy costs, domestic political issues, government shutdowns, climate change and the availability and cost of credit may contribute to increased volatility and unclear expectations for the economy in general and the real estate, mortgage market and financial markets in particular going forward. A destabilization of the real estate market, mortgage market and financial markets or deterioration in these markets also could reduce our loan production volume, reduce the profitability of servicing mortgages or adversely affect our ability to sell mortgage loans that we originate or acquire, either at a profit or

at all. Any of the foregoing could materially and adversely affect our business, financial condition, liquidity and results of operations.

We may not be able to effectively manage significant increases or decreases in our loan production volume, which could negatively affect our business, financial condition, liquidity and results of operations.

We may experience significant growth in our loan production volumes. If we do not effectively manage our growth and are unable to consistently maintain quality of execution, our reputation and existing relationships with mortgage lenders and brokers could be damaged, we may not be able to maintain PMT's existing relationships or develop new relationships with mortgage lenders and brokers, our new mortgage products may not gain widespread acceptance and the quality of our correspondent production, consumer direct lending and broker direct lending operations could suffer, all of which could negatively affect our brand and operating results.

Our loan production segment is also subject to overall market factors that could adversely impact our ability to grow our loan production volume. For example, increased competition from new and existing market participants, reductions in the overall level of refinancing activity or slow growth in the level of new home purchase activity can impact our ability to continue to grow our loan production volumes, and we may be forced to accept lower margins in our respective businesses in order to continue to compete and keep our volume of activity consistent with past or projected levels or be forced to reduce our levels of production activity.

We have a substantial amount of indebtedness, which may limit our financial and operating activities, expose us to substantial increases in costs due to interest rate fluctuations, expose us to the risk of default under our debt obligations and may adversely affect our ability to incur additional debt to fund future needs.

As of December 31, 2020, we had \$12.3 billion of total indebtedness outstanding (approximately \$11.6 billion of which was secured) and up to \$2.5 billion of additional capacity under our secured borrowings and other secured debt financing arrangements. This substantial indebtedness and any future indebtedness we incur could have adverse consequences and, for example, could:

- require us to dedicate a substantial portion of cash flow from operations to the payment of principal and interest on indebtedness, including indebtedness we may incur in the future, thereby reducing the funds available for operations, capital expenditures and other general corporate purposes;
- make it more difficult for us to satisfy our obligations with respect to our indebtedness, and any failure to comply with the obligations of any of our debt instruments, including any restrictive covenants, could result in an event of default under the indenture governing the unsecured notes or under the agreements governing our other indebtedness which, if not cured or waived, could result in the acceleration of our indebtedness under our other debt instruments or the unsecured senior notes;
- subject us to increased sensitivity to interest rate increases;
- make us more vulnerable to economic downturns, adverse industry conditions or catastrophic external events, including the COVID-19 pandemic;
- reduce our flexibility in planning for or responding to changing business, industry and economic conditions or restrict our ability to carry on activities important to our growth; and/or
- place us at a competitive disadvantage to competitors that have relatively less debt than we have.

In addition, our substantial level of indebtedness could limit our ability to obtain additional financing on acceptable terms, or at all, for working capital and general corporate purposes. Our liquidity needs vary significantly from time to time and may be affected by general economic conditions, industry trends, performance and many other factors outside our control.

We rely on external financial arrangements to fund mortgage loans and operate our business and our inability to refinance or enter new financial arrangements could be detrimental to our business.

Our ability to finance our business operations and repay maturing obligations rests in large part on our ability to borrow money. Unlike some of our competitors who fund mortgage loans through bank deposits, we generally fund our

mortgage loans through borrowings under warehouse facilities and other financial arrangements as well as funds from our operations. Our borrowings are generally repaid with the proceeds we receive from mortgage loan sales. We require new and continued financing to facilitate our anticipated growth. We are generally required to renew many of our financing arrangements each year, which exposes us to refinancing and interest rate risks. Our ability to refinance our existing financial obligations and borrow additional funds is affected by a variety of factors beyond our control including:

- limitations imposed on us under our financing agreements that contain restrictive covenants and borrowing conditions, which may limit our ability to raise additional debt;
- restrictions imposed upon us by regulatory agencies that mandate certain minimum capital and liquidity requirements and additional scrutiny from such regulatory agencies;
- liquidity in the credit markets;
- prevailing interest rates;
- the strength of the lenders from which we borrow, and the regulatory environment in which they operate, including proposed capital strengthening requirements;
- limitations on borrowings on credit facilities imposed by the amount of eligible collateral pledged, which may be less than the borrowing capacity of the credit facility; and
- accounting changes that may impact calculations of covenants in our debt agreements.

We are also dependent on a limited number of banking institutions that extend us credit on terms that we have determined to be commercially reasonable. These banking institutions are subject to their own regulatory supervision, liquidity and capital requirements, risk management frameworks, profitability and risk thresholds and tolerances, any of which may change materially and negatively impact their business strategies, including their extension of credit to us specifically or mortgage lenders and servicers generally. Certain banking institutions have already exited, and others may in the future decide to exit, the mortgage business. Such actions may increase our cost of capital and limit or otherwise eliminate our access to capital, in which case our business, financial condition, liquidity and results of operations would be materially and adversely affected.

In the event that any of our financial arrangements is terminated or is not renewed, or if the principal amount that may be drawn under our funding agreements that provide for immediate funding at closing were to significantly decrease, we may be unable to find replacement financing on commercially favorable terms, or at all, which could be detrimental to our business.

We leverage our assets under credit and other financing agreements and utilize various other sources of borrowings, which exposes us to significant risk and may materially and adversely affect our business, financial condition, liquidity and results of operations.

We currently leverage and, to the extent available, we intend to continue to leverage the mortgage loans produced through our consumer and broker direct lending business and the government-insured loans acquired through our correspondent production activities from PMT with borrowings under repurchase agreements. When we enter into repurchase agreements, we sell mortgage loans to lenders, which are the repurchase agreement counterparties, and receive cash from the lenders. The lenders are obligated to resell the same assets back to us at the end of the term of the transaction. Because the cash that we receive from a lender when we initially sell the assets to that lender is less than the fair value of those assets (this difference is referred to as the haircut), if the lender defaults on its obligation to resell the same assets back to us we could incur a loss on the transaction equal to the amount of the haircut (assuming that there was no change in the fair value of the assets). In addition, repurchase agreements generally allow the counterparties, to varying degrees, to determine a new fair value of the collateral to reflect current market conditions. If a counterparty lender determines that the fair value of the collateral has decreased, it may initiate a margin call and require us to either post additional collateral to cover such decrease or repay a portion of the outstanding borrowing. Should this occur, in order to obtain cash to satisfy a margin call, we may be required to liquidate assets at a disadvantageous time, which could cause us to incur further losses. If we are unable to satisfy a margin call, our counterparty may sell the collateral, which may result in significant losses to us.

In addition, we invest in certain assets, including MSRs and EBOs, for which financing has historically been difficult to obtain. We currently leverage certain of our MSRs and EBOs under secured financing arrangements. Our Fannie Mae MSRs are pledged to secure borrowings under a master repurchase agreement and our and Freddie Mac MSRs are pledged to secure borrowings under a loan and security agreement. Our Ginnie Mae MSRs and related excess servicing spread financing (“ESS”) are pledged to a special purpose entity, which issues variable funding notes and term notes that are secured by such Ginnie Mae assets and repaid through the cash flows received by the special purpose entity as the lender under a repurchase agreement with PLS. Some of our EBOs are contributed to a special purpose entity, which issues participation certificates pledged to secure borrowings under a master repurchase agreement. In fiscal year 2020, we amended some master repurchase agreements to pledge other EBOs as an additional asset type under those agreements. In each case, similar to our repurchase agreements, the cash that we receive under these secured financing arrangements is less than the fair value of the assets and a decrease in the fair value of the pledged collateral can result in a margin call. Should a margin call occur, we may be required to liquidate assets at a disadvantageous time, which could cause us to incur further losses. If we are unable to satisfy a margin call, the secured parties may sell the collateral, which may result in significant losses to us.

Each of the secured financing arrangements pursuant to which we finance MSRs and ESS is further subject to the terms of an acknowledgement agreement with Fannie Mae, Freddie Mac or Ginnie Mae, as applicable, pursuant to which our and the secured parties’ rights are subordinate in all respects to the rights of the applicable Agency. Accordingly, the exercise by any of Fannie Mae, Freddie Mac or Ginnie Mae of its rights under the applicable acknowledgment agreement could result in the extinguishment of our and the secured parties’ rights in the related collateral and result in significant losses to us.

We may in the future utilize other sources of borrowings, including term loans, bank credit facilities and structured financing arrangements, among others. The amount of leverage we employ varies depending on the asset class being financed, our available capital, our ability to obtain and access financing arrangements with lenders and the lenders’ and rating agencies’ estimate of, among other things, the stability of our cash flows. We can provide no assurance that we will have access to any debt or equity capital on favorable terms or at the desired times, or at all. Our inability to raise such capital or obtain financing on favorable terms could materially and adversely impact our business, financial condition, liquidity and results of operations.

Our financing agreements contain restrictive covenants that could adversely affect our business, financial condition, liquidity and results of operations.

Our various financing agreements require us and/or our subsidiaries to comply with various restrictive covenants, including those relating to tangible net worth, profitability and our ratio of total liabilities to tangible net worth. Incurring substantial debt subjects us to the risk that our cash flows from operations may be insufficient to repurchase the assets that we have sold under our repurchase agreements or otherwise service the debt incurred under our other financing agreements. Our lenders also require us to maintain minimum amounts of cash or cash equivalents sufficient to maintain a specified liquidity position. In addition, the repayment of the unsecured notes will depend in part on our restricted subsidiaries’ generation of cash flow and our restricted subsidiaries’ ability to make such cash available to us, by dividend, debt repayment or other means. The Unsecured Notes’ indenture contain additional restrictive covenants that limit our and our restricted subsidiaries’ ability to engage in specified types of transactions, including our ability and/or the ability of our restricted subsidiaries to:

- pay dividends or distributions, redeem or repurchase equity, prepay subordinated debt and make certain loans or investments;
- merge or consolidate with another person or sell all or substantially all of our assets to another person;
- transfer, sell or otherwise dispose of certain assets including capital stock of subsidiaries;
- enter into transactions with affiliates; and
- allow to exist certain restrictions on the ability of non-guarantor restricted subsidiaries to pay dividends or make other payments to us.

If we fail to comply with the restrictive covenants and are unable to obtain a waiver or amendment, an event of default would result under the terms of our financing arrangement or could limit our ability to obtain additional financing on acceptable terms, or at all, for working capital and general corporate purposes.

Our earnings may decrease because of changes in prevailing interest rates.

Our profitability is directly affected by changes in prevailing interest rates. An increase in prevailing interest rates could:

- adversely affect our loan production volume, as refinancing an existing loan would be less attractive and qualifying for a loan may be more difficult;
- adversely affect our Ginnie Mae early buyout program because loan modifications would become less economically feasible; and
- increase the cost of servicing our outstanding debt, including debt related to servicing assets and loan production;

A decrease in prevailing interest rates could:

- cause an increase in the expected volume of loan refinancings, which would require us to record decreases in fair value on our MSRs; and
- reduce our earnings from our custodial deposit accounts.

An event of default, a negative ratings agency action, the perception of financial weakness, an adverse action by a regulatory authority, a lengthening of foreclosure timelines or a general deterioration in the economy that constricts the availability of credit may increase our cost of funds and make it difficult for us to refinance existing debt and borrow additional funds. In addition, we may not be able to adjust our operational capacity in a timely manner, or at all, in response to increases or decreases in mortgage production volume resulting from changes in prevailing interest rates. In addition, due to the ongoing COVID-19 pandemic, the Federal Reserve has enacted monetary policies to purchase MBS on the open market which could impact interest rates and the liquidity of the MBS market.

Any of the increases or decreases discussed above could have a material adverse effect on our business, financial condition, liquidity and results of operations.

We are subject to risks associated with the expected discontinuation of LIBOR.

In July 2017, the head of the United Kingdom Financial Conduct Authority (“FCA”), which regulates the LIBOR administrator, announced the phase out of the use of LIBOR by the end of 2021. However, for U.S. dollar LIBOR, it now appears that the relevant date may be deferred to June 30, 2023 for the most common rates (overnight and one, three, six and 12 months). The LIBOR administrator has published a consultation regarding its intention to cease publication of U.S. dollar LIBOR as of June 30, 2023 (instead of December 31, 2021, as previously expected) based on continued rate submissions from banks. The FCA and other regulators have stated that they welcome the LIBOR administrator’s action. An extension to 2023 would mean that many legacy U.S. dollar LIBOR contracts would terminate before related LIBOR rates cease to be published. However, the same regulators emphasized that, despite any continued publication of U.S. dollar LIBOR through June 30, 2023, no new contracts using U.S. dollar LIBOR should be entered into after December 31, 2021. Moreover, the LIBOR administrator’s consultation also relates to the LIBOR administrator’s intention to cease publication of non-U.S. dollar LIBOR after December 31, 2021. There is no assurance that LIBOR will continue to be published until any particular date.

To identify a set of alternative interest reference rates to LIBOR, the U.S. Federal Reserve established the Alternative Reference Rates Committee (“ARRC”), a U.S. based working group composed of large U.S. financial institutions. ARRC has identified the Secured Overnight Financing Rate as its preferred replacement for LIBOR, but it is unclear how their preference may impact the risks we maintain to the cessation of LIBOR, or if other benchmarks may emerge as a replacement for LIBOR.

The expected and actual discontinuation of LIBOR could have a significant impact on the financial markets and our business activities. We rely on financing arrangements and liabilities under which our cost of borrowing is based on LIBOR. We also hold assets and instruments used to hedge the value of certain assets that depend for their value on LIBOR. We anticipate significant challenges as it relates to the transition away from LIBOR for all of our LIBOR-based assets, financing arrangements, and liabilities, regardless whether their maturity dates fall before or after the anticipated discontinuation date after December 31, 2021 or June 30, 2023, as applicable. These challenges will include, but will not be limited to, amending agreements underlying our existing and/or new LIBOR-based assets, financing arrangements, and liabilities with appropriate fallback language prior to the discontinuation of LIBOR, and the possibility that LIBOR may deteriorate as a viable benchmark to ensure a fair cost of funds for our LIBOR-linked liabilities, interest income for our LIBOR-linked assets, and/or the determination of fair value for certain of our assets and hedges using LIBOR as a benchmark rate or used to develop a market discount rate. In addition, the transition to using any new benchmark rate or other financial metric may require changes to existing transaction data, products, systems, models, operations and pricing processes.

We also anticipate additional risks to our current business activities as they relate to the discontinuation of LIBOR. We service LIBOR-based adjustable rate mortgages (“ARMs”) for which the underlying mortgage notes incorporate fallback provisions, but we cannot anticipate the response of our borrowers or note holders to such risks. We also rely on financial models that incorporate LIBOR into their methodologies for financial valuation, planning and reporting.

Due to these risks, we expect both the impending and actual discontinuation of LIBOR could materially affect our interest expense and earnings, our cost of capital, and the fair value of certain of our assets and the instruments we use to hedge their value. For the same reason, we also can provide no assurance that changes in the value of our hedge instruments will effectively offset changes in the value of the assets they are expected to hedge. Furthermore, the transition away from widely used benchmark rates like LIBOR could result in customers or other market participants challenging the determination of their interest payments, disputing the interpretations or implementation of contract “fallback” provisions and other transition related changes. Our inability to manage these risks effectively may materially and adversely affect our business, financial condition, liquidity and results of operations.

Hedging against interest rate exposure may materially and adversely affect our results of operations and cash flows.

We pursue hedging strategies primarily in an effort to mitigate the effect of changes in interest rates on the fair value of our assets. To manage this price risk, we use derivative financial instruments acquired with the intention of moderating the risk that changes in market interest rates will result in unfavorable changes in the fair value of our assets, primarily prepayment exposure on our MSR investments as well as IRLCs and our inventory of loans held for sale. For example, with respect to our IRLCs and inventory of loans held for sale, we may use MBS forward sale contracts to lock in the price at which we will sell the mortgage loans or resulting MBS, and MBS put options to mitigate the risk of our IRLCs not closing at the rate we expect. In addition, with respect to our MSRs, we may use MBS forward purchase and sale contracts to address exposures to smaller interest rate shifts with Treasury and interest rate swap futures, and use options and swaptions to achieve target coverage levels for larger interest rate shocks.

Our hedging activity will vary in scope based on the risks being mitigated, the level of interest rates, the type of investments held, and other changing market conditions such as those resulting from the ongoing COVID-19 pandemic. Hedging instruments involve risk because they often are not traded on regulated exchanges, guaranteed by an exchange or its clearing house, or regulated by any U.S. or foreign governmental authorities, and our interest rate hedging may fail to protect or could adversely affect us because, among other things:

- interest rate hedging can be expensive, particularly during periods of rising and volatile interest rates;
- available interest rate hedging may not correspond directly with the interest rate risk for which protection is sought;
- the duration of the hedge may not match the duration of the related liability or asset;
- the credit quality of the hedging counterparty owing money on the hedge may be downgraded to such an extent that it impairs our ability to sell or assign our side of the hedging transaction; and

- the hedging counterparty owing the money in the hedging transaction may default on its obligation to pay.

In addition, we may fail to recalculate, re-adjust and execute hedges in an efficient manner. Any hedging activity, which is intended to limit losses, may materially and adversely affect our results of operations and cash flows. Therefore, while we may enter into such transactions seeking to reduce interest rate risk, unanticipated changes in interest rates may result in worse overall investment performance than if we had not engaged in any such hedging transactions. A liquid secondary market may not exist for a hedging instrument purchased or sold, and we may be required to maintain a position until exercise or expiration, which could result in significant losses. In addition, the degree of correlation between price movements of the instruments used in hedging strategies and price movements in the portfolio positions or liabilities being hedged may vary materially. Moreover, for a variety of reasons, we may not establish an effective correlation between such hedging instruments and the portfolio positions or liabilities being hedged. Any such ineffective correlation may prevent us from achieving the intended hedge and expose us to risk of loss. Numerous regulations currently apply to hedging and any new regulations or changes in existing regulations may significantly increase our administrative or compliance costs. Our derivative agreements generally provide for the daily mark to market of our hedge exposures. If a hedge counterparty determines that its exposure to us exceeds its exposure threshold, it may initiate a margin call and require us to post collateral. If we are unable to satisfy a margin call, we would be in default of our agreement, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

We use estimates in determining the fair value of our MSRs, which are highly volatile assets with continually changing fair values. If our estimates of their value prove to be inaccurate, we may be required to write down the fair values of the MSRs which could adversely affect our business, financial condition, liquidity and results of operations.

Our estimates of the fair value of our MSRs is based on the cash flows projected to result from the servicing of the related mortgage loans and continually fluctuates due to a number of factors. These factors include prepayment speeds, the ongoing COVID-19 pandemic and other market conditions, which affect the number of loans that are repaid or refinanced and thus no longer result in cash flows, and the number of loans that become delinquent.

We use internal financial models that utilize our understanding of inputs and assumptions used by market participants to value our MSRs for purposes of financial reporting and for purposes of determining the price that we pay for portfolios of MSRs and to acquire loans for which we will retain MSRs. These models are complex and use asset-specific collateral data and market inputs for interest and discount rates. In addition, the modeling requirements of MSRs are complex because of the high number of variables that drive cash flows associated with MSRs. Even if the general accuracy of our valuation models is validated, valuations are highly dependent upon the reasonableness of our inputs and the results of the models.

If loan delinquencies or prepayment speeds are different than anticipated or other factors perform differently than modeled, the recorded value of certain of our MSRs may change. Significant differences in performance could increase the chance that we do not adequately estimate the impact of these factors on our valuations which could result in misstatements of our financial results, restatements of our financial statements, or otherwise materially and adversely affect our business, financial condition, liquidity and results of operations.

The geographic concentration of our servicing portfolio may be affected by weaker economic conditions or adverse events specific to certain regions which could decrease the fair value of our MSRs and adversely affect our business, financial condition, liquidity and results of operations.

A decline in the economy, the ongoing COVID-19 pandemic or other difficulties in certain real estate markets may cause a decline in the value of residential and commercial properties. To the extent that certain states in which we have greater concentrations of business in the future experience weaker economic conditions or greater rates of decline in real estate values than the United States generally, such concentration may disproportionately decrease the fair value of our MSRs and adversely affect our loan production businesses. The impact of property value declines may increase in magnitude and it may continue for a long period of time. Additionally, if states in which we have greater concentrations of business were to change their licensing or other regulatory requirements to make our business cost-prohibitive, we

may be required to stop doing business in those states or may be subject to a higher cost of doing business in those states, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

Increases in delinquencies and defaults may adversely affect our business, financial condition, liquidity and results of operations.

Delinquencies can result from many factors including unemployment, weak economic conditions or real estate values, or catastrophic events such as man-made or natural disasters, pandemic, war or terrorist attacks. A decrease in home prices may result in higher loan-to-value ratios (“LTVs”), lower recoveries in foreclosure and an increase in loss severities above those that would have been realized had property values remained the same or continued to increase. Some borrowers do not have sufficient equity in their homes to permit them to refinance their existing loans, which may reduce the volume or growth of our loan production business. This may also provide borrowers with an incentive to default on their mortgage loans even if they have the ability to make principal and interest payments. Further, despite recent increases, interest rates have remained near historical lows for an extended period of time.

Increased mortgage delinquencies, defaults and foreclosures may result in lower revenue for loans that we service for the Agencies because we only collect servicing fees from the Agencies for performing loans, and our failure to service delinquent and defaulted loans in accordance with the applicable servicing guidelines could result in our failure to benefit from available monetary incentives and/or expose us to monetary penalties and curtailments. Additionally, while increased delinquencies generate higher ancillary fees, including late fees, these fees are not likely to be recoverable in the event that the related loan is liquidated. In addition, an increase in delinquencies lowers the interest income that we receive on cash held in collection and other accounts because there is less cash in those accounts. Also, increased mortgage defaults may ultimately reduce the number of mortgages that we service.

Increased mortgage delinquencies, defaults and foreclosures will also result in a higher cost to service those loans due to the increased time and effort required to collect payments from delinquent borrowers and to acquire and liquidate the properties securing the loans or otherwise resolve loan defaults if payment collection is unsuccessful, and only a portion of these increased costs are recoverable under our servicing agreements. Increased mortgage delinquencies, defaults and foreclosures may also result in an increase in servicing advances we are obligated to make to fulfill our obligations to MBS holders and to protect our investors’ interests in the properties securing the delinquent mortgage loans. An increase in required advances also may cause an increase in our interest expense and affect our liquidity as a result of increased borrowings under our financing agreements to fund any such increase in the advances.

A disruption in the MBS market could materially and adversely affect our business, financial condition, liquidity and results of operations.

Most of the loans that we produce are pooled into MBS issued by Fannie Mae or Freddie Mac or guaranteed by Ginnie Mae. In addition, due to the ongoing COVID-19 pandemic, the Federal Reserve has enacted monetary policies to purchase MBS on the open market that has and may continue to impact the liquidity of the MBS market. Any significant disruption or period of illiquidity in the general MBS market would directly affect our own liquidity and the liquidity of PMT because no existing alternative secondary market would likely be willing and able to accommodate on a timely basis the volume of loans that we typically sell in any given period. Furthermore, we would remain contractually obligated to fund loans under our outstanding IRLCs without being able to sell our existing inventory of mortgage loans. Accordingly, if the MBS market experiences a period of illiquidity, we might be prevented from selling the loans that we produce into the secondary market in a timely manner or at favorable prices and we would be required to hold a larger inventory of loans than we have committed facilities to fund or we may be required to repay a portion of the debt secured by these assets, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

We may be required to indemnify the purchasers of loans that we originate, acquire or assist in the fulfillment of, or repurchase those loans, if those loans fail to meet certain criteria or characteristics or under other circumstances.

Our contracts with purchasers of newly originated loans that we fund through our consumer direct lending business or acquire from PMT through our correspondent production activities contain provisions that require us to

indemnify the purchaser of the related loans or repurchase such loans under certain circumstances. Our loan sale agreements with purchasers, including the Agencies, contain provisions that generally require us to indemnify or repurchase these loans if our representations and warranties concerning loan quality and loan characteristics are inaccurate; or the loans fail to comply with the respective Agency's underwriting or regulatory requirements.

Repurchased loans typically can only be financed at a steep discount to their repurchase price, if at all. They are also typically valued and, therefore, can generally only be sold at a significant discount to the underlying UPBs. In certain cases involving mortgage lenders from whom loans were acquired through our correspondent production activities, we may have contractual rights to either recover some or all of our indemnification losses or otherwise demand repurchase of these loans. Depending on the volume of repurchase and indemnification requests, some of these mortgage lenders may not be able to financially fulfill their obligation to indemnify us or repurchase the affected loans. If a material amount of recovery cannot be obtained from these mortgage lenders, our business, financial condition, liquidity and results of operations could be materially and adversely affected.

Although our indemnification and repurchase exposure cannot be quantified with certainty, to recognize these potential indemnification and repurchase losses, we have recorded a liability of \$32.7 million as of December 31, 2020. Because of the increase in our loan production over time, we expect that indemnification and repurchase requests are also likely to increase. Should home values decrease and negatively impact the related loan values, our realized loan losses from indemnifications and repurchases may increase as well. As such, our indemnification and repurchase costs may increase well beyond our current expectations. In addition, our mortgage banking services agreement with PMT requires us to indemnify it with respect to loans for which we provide fulfillment services in certain instances. If we are required to indemnify PMT or other purchasers against losses, or repurchase loans from PMT or other purchasers, that result in losses that exceed the recorded liability, this could have a material adverse effect on our business, financial condition, liquidity and results of operations.

We depend on the accuracy and completeness of information about borrowers and counterparties and any misrepresented information could adversely affect our business, financial condition, liquidity and results of operations.

In deciding whether to approve loans or to enter into other transactions across our businesses with borrowers and counterparties, including brokers, correspondent lenders and non-delegated correspondent lenders, we may rely on information furnished to us by or on behalf of borrowers and such counterparties, including financial statements and other financial information. We also may rely on representations of borrowers and such counterparties as to the accuracy and completeness of that information and, with respect to financial statements, on reports of independent auditors. If any of this information is intentionally or negligently misrepresented and such misrepresentation is not detected prior to loan funding, the fair value of the loan may be significantly lower than expected. Whether a misrepresentation is made by the loan applicant, another third party or one of our employees, we generally bear the risk of loss associated with the misrepresentation. Our controls and processes may not have detected or may not detect all misrepresented information in our loan originations or acquisitions. Any such misrepresented information could have a material adverse effect on our business, financial condition, liquidity and results of operations.

Our counterparties may terminate our MSRs, which could adversely affect our business, financial condition, liquidity and results of operations.

As is standard in the industry, under the terms of our master servicing agreements with the Agencies in respect of Agency MSRs that we retain in connection with our loan production, the Agencies have the right to terminate us as servicer of the loans we service on their behalf at any time (and, in certain instances, without the payment of any termination fee) and also have the right to cause us to sell the MSRs to a third party. In addition, our failure to comply with applicable servicing guidelines could result in our termination under such master servicing agreements by the Agencies with little or no notice and without any compensation. The owners of other non-Agency loans that we service may also terminate certain of our MSRs if we fail to comply with applicable servicing guidelines. If the MSRs are terminated on a material portion of our servicing portfolio, our business, financial condition, liquidity and results of operations could be adversely affected.

We are required to make servicing advances that can be subject to delays in recovery or may not be recoverable in certain circumstances, which could adversely affect our business, financial condition, liquidity and results of operations.

During any period in which a borrower is not making payments, we are required under most of our servicing agreements in respect of our MSRs to advance our own funds to pay property taxes and insurance premiums, legal expenses and other protective advances. We also advance funds under these agreements to maintain, repair and market real estate properties on behalf of investors. As home values change, we may have to reconsider certain of the assumptions underlying our decisions to make advances and, in certain situations, our contractual obligations may require us to make advances for which we may not be reimbursed. In addition, if a mortgage loan serviced by us is in default or becomes delinquent, the repayment to us of the advance may be delayed until the mortgage loan is repaid or refinanced or a liquidation occurs.

Federal, state or local regulatory actions may increase the amount of servicing advances that we are required to make, lengthen the time it takes for us to be reimbursed for such advances and increase the costs incurred while the loan is delinquent. For example, the federal government enacted the CARES Act, which allows borrowers with federally-backed loans to request temporary payment forbearance in response to the increased borrower hardships resulting from the COVID-19 pandemic. As a result of the CARES Act forbearance requirements, we have experienced elevated delinquencies in our servicing portfolio that may require us to finance substantial amounts of advances of principal and interest payments to the investors holding those loans, as well as advances of property taxes, insurance premiums and other expenses to protect investors' interests in the properties securing the loans. In fiscal year 2020, elevated prepayment activity was sufficient to cover principal and interest payment advances due to the impact of the CARES Act; however, in the future prepayment activity may be insufficient to cover required principal and interest advances. Future servicing advances will be driven by the number of borrower delinquencies, including those resulting from payment forbearance; the amount of time borrowers remain delinquent; and the level of successful resolution of delinquent payments, all of which will be impacted by the pace at which the economy recovers from the COVID-19 pandemic. As of December 31, 2020, 7.2% of loans in UPB in our predominantly government-insured or guaranteed MSR portfolio were in forbearance plans and delinquent.

A delay in our ability to collect advances may adversely affect our liquidity, and our inability to be reimbursed for advances could have a material adverse effect on our business, financial condition, liquidity and results of operations

We may not realize all of the anticipated benefits of potential future acquisitions of MSRs, which could adversely affect our business, financial condition, liquidity and results of operations.

Our ability to realize the anticipated benefits of potential future acquisitions of servicing portfolios will depend, in part, on our ability to appropriately service any such assets. The process of acquiring these assets may disrupt our business and may not result in the full benefits expected. The risks associated with these acquisitions include, among others, unanticipated issues in integrating information regarding the new loans to be serviced into our information technology systems, and the diversion of management's attention from other ongoing business concerns. Moreover, if we inappropriately value the assets that we acquire or the fair value of the assets that we acquire declines after we acquire them, the resulting charges may negatively affect both the carrying value of the assets on our balance sheet and our earnings. Furthermore, if we incur additional indebtedness to finance an acquisition, the acquired servicing portfolio may not be able to generate sufficient cash flows to service that additional indebtedness. Unsuitable or unsuccessful acquisitions could have a material adverse effect on our business, financial condition, liquidity and results of operations.

We are subject to significant financial and reputational risks from potential liability arising from lawsuits, and regulatory and government action.

We face significant legal risks in our business, and the volume of claims and amount of damages, penalties and fines claimed in litigation, and regulatory and government proceedings against us and other financial institutions remains high. For example, in 2019 Black Knight Servicing Technologies, LLC filed a legal claim against us for alleged breach of contract and misappropriation of trade secrets. Greater than expected investigation costs and litigation, including class action lawsuits associated with compliance related issues, substantial legal liability or significant regulatory or government action against us could have adverse effects on our financial condition and results of operations or cause significant reputational harm to us, which in turn could adversely impact our business results and prospects. We may experience a significant volume of litigation and other disputes, including claims for contractual indemnification, with counterparties regarding relative rights and responsibilities. Consumers, clients and other counterparties may also become increasingly litigious.

We also may be exposed to the risk of litigation by investors in clients that we manage from time to time if our management advice is alleged to constitute gross negligence or willful misconduct. Investors could sue us to recover amounts lost by those entities due to our alleged misconduct, up to the entire amount of loss. Further, we may be subject to litigation arising from investor dissatisfaction with the performance of any such entities that we manage or from allegations that we improperly exercised control or influence over those entities. In addition, we are exposed to risks of litigation or investigation relating to transactions which presented conflicts of interest that were not properly addressed. In such actions, we would be obligated to bear legal, settlement and other costs (which may be in excess of available insurance coverage). In addition, although we are generally indemnified by the entities that we manage, our rights to indemnification may be challenged. If we are required to incur all or a portion of the costs arising out of litigation or investigations as a result of inadequate insurance proceeds or failure to obtain indemnification from the entities that we manage, our business, financial condition, liquidity and results of operations would be materially and adversely affected.

We depend on counterparties and vendors to provide services that are critical to our business, which subjects us to a variety of risks.

We have a number of counterparties and vendors, who provide us with financial, technology and other services that are critical to support our businesses. If our current counterparties and vendors were to stop providing services to us on acceptable terms or if we had a disruption in service due to a vendor dispute, we may be unable to procure alternative services from other counterparties or vendors in a timely and efficient manner and on similarly acceptable terms, or at all. Some of these counterparties and vendors have significant operations outside of the United States. If we or our vendors had to curtail or cease operations in these countries due to political unrest or natural disasters and then transfer some or all of these operations to another geographic area, we could experience disruptions in service and incur significant transition costs as well as higher future overhead costs. With respect to vendors engaged to perform certain servicing activities, we are required to assess their compliance with various regulations and establish procedures to provide reasonable assurance that the vendor's activities comply in all material respects with such regulations. In the event that a vendor's activities are not in compliance, it could negatively impact our relationships with our regulators, as well as our business and operations. Further, we may incur significant costs to resolve any such disruptions in service which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

Our failure to appropriately address various issues that may give rise to reputational risk could cause harm to our business and adversely affect our earnings.

Our business is subject to significant reputational risks. If we fail, or appear to fail, to address various issues that may give rise to reputational risk, we could significantly harm our business prospects and earnings. Such issues include, but are not limited to, actual or perceived conflicts of interest, violations of legal or regulatory requirements, and any of the other risks discussed in this Item 1A. Similarly, market rumors and actual or perceived association with counterparties whose own reputations are under question could harm our business.

Certain of our officers also serve as officers of PMT. As we expand the scope of our businesses, we increasingly confront potential conflicts of interest relating to investment activities that we manage for PMT. The SEC and certain regulators have increased their scrutiny of potential conflicts of interest, and as we experience growth in our businesses, we continue to monitor and mitigate or otherwise address any conflicts between our interests and those of PMT through the implementation of procedures and controls. Reputational risk incurred in connection with conflicts of interest could negatively affect our business, strain our working relationships with regulators and government agencies, expose us to litigation and regulatory action, impact our ability to attract and retain clients, customers, trading counterparties, investors and employees and adversely affect our results of operations.

Reputational damage can result from our actual or alleged conduct in any number of activities, including lending and debt collection practices, corporate governance, and actions taken by government regulators and community organizations in response to those activities. Negative public opinion can also result from social media and media coverage, whether accurate or not. In addition, various private third party organizations have developed ratings processes for evaluating companies on their approach to environmental, social and governance (“ESG”) matters. These third party ESG ratings may be used by some investors to assist with their investment and voting decisions. Any unfavorable ESG ratings may lead to reputational damage and negative sentiment among our investors and other stakeholders. These factors could impair our working relationships with government agencies and investors, expose us to litigation and regulatory action, negatively affect our ability to attract and retain customers, trading counterparties and employees, significantly harm our stock price and ability to raise capital, and adversely affect our results of operations.

Accounting rules for certain of our transactions are highly complex and involve significant judgment and assumptions. Changes in accounting interpretations or assumptions could impact our financial statements.

Accounting rules for mortgage loan sales and securitizations, valuations of financial instruments and MSRs, investment consolidations, income taxes and other aspects of our operations are highly complex and involve significant judgment and assumptions. These complexities could lead to a delay in preparation of financial information and the delivery of this information to our stockholders and also increase the risk of errors and restatements, as well as the cost of compliance. Changes in accounting interpretations or assumptions could impact our financial statements and our ability to timely prepare our financial statements. Our inability to timely prepare our financial statements in the future would likely be considered a breach of our financial covenants and adversely affect our share price significantly.

The success and growth of our business depends upon our ability to adapt to and implement technological changes and to successfully develop, implement and protect proprietary technology.

Our success in the mortgage industry is highly dependent upon our ability to adapt to constant technological changes, successfully enhance our current information technology solutions through the use of third-party and our proprietary technologies, and introduce new solutions and services that more efficiently address the needs of our customers.

Our mortgage loan production businesses are dependent upon our ability to effectively interface with our borrowers, mortgage lenders and other third parties and to efficiently process loan applications and closings. The direct lending processes are becoming more dependent upon technological advancement, such as our continued ability to process applications over the Internet, accept electronic signatures, provide process status updates instantly and other borrower- or counterparty-expected conveniences. In our correspondent production activities, our and PMT’s correspondent sellers also expect and require certain conveniences and service levels that are dependent on technological advancement. In this regard, we have recently transitioned to a workflow-driven, cloud-based loan acquisition platform. While we anticipate that the cloud-based system will increase scalability and produce other efficiencies, there can be no assurance that the cloud-based system will prove to be effective or that such correspondent sellers will easily adapt to the cloud-based system. Any failure to effectively or timely transition to our new system and meet our expectations and the expectations of our correspondent sellers could have a material adverse effect on our business, financial condition and results of operations.

Similarly, our servicing business is dependent on our ability to effectively interface with our customers and investors, as well as service mortgage loans in compliance with applicable laws and regulations and the contractual requirements of such investors. For example, we have recently transitioned to a proprietary workflow-driven, cloud-

based servicing system that provides for real-time processing and advanced workflow management thereby reducing servicing costs, increasing scalability and creating sustainable efficiencies.

We rely on a combination of trademarks, copyrights, and trade secrets, as well as confidentiality and contractual provisions to protect our intellectual property and proprietary technologies. In addition, we also license and utilize third party proprietary technologies and loss of rights to significant third party proprietary technologies may result in decreased product functionality. The development, implementation and protection of our intellectual property and proprietary technologies requires significant human resources and capital expenditures. As these technological advancements and investor and compliance requirements increase in the future, we will need to further develop these technological capabilities in order to remain competitive, and we will need to implement, execute and maintain them in an operating and regulatory environment that exposes us to significant risk. Moreover, litigation has become necessary to protect our intellectual property and proprietary technologies, and, such litigation is expected to be time consuming and result in substantial costs and diversion of resources.

There is no assurance that we will be able to successfully adopt new technologies as critical systems and applications become obsolete and better ones become available. Any failure by us to develop, implement, integrate, execute or maintain our technological capabilities and any litigation costs associated with protection of our technologies could have a material adverse effect on our business, financial condition and results of operations.

We are subject to certain risks associated with investing in real estate and real estate related assets, including risks of loss from adverse weather conditions, man-made or natural disasters, pandemics, such as COVID-19, terrorist attacks and the effects of climate change and, which may cause disruptions in our operations and could materially and adversely affect the real estate industry generally and our business, financial condition, liquidity and results of operations.

Weather conditions and man-made or natural disasters such as hurricanes, tornadoes, earthquakes, pandemics, such as COVID-19, floods, droughts, fires and other environmental conditions can adversely impact properties that we own or that collateralize loans we own or service, as well as properties where we conduct business. Future adverse weather conditions and man-made or natural disasters could also adversely impact the demand for, and value of, our assets, as well as the cost to service or manage such assets, directly impact the value of our assets through damage, destruction or loss, and thereafter materially impact the availability or cost of insurance to protect against these events. Terrorist attacks and other acts of violence may cause disruptions in U.S. financial markets and negatively impact the U.S. economy in general.

Potentially adverse consequences of global warming and climate change, including rising sea levels and increased intensity of extreme weather events, could similarly have an impact on our properties and the local economies of certain areas in which we operate. Although we believe our owned real estate and the properties collateralizing our loan assets or underlying our MSR assets are appropriately covered by insurance, we cannot predict at this time if we or our borrowers will be able to obtain appropriate coverage at a reasonable cost in the future, or if we will be able to continue to pass along all of the costs of insurance. There also is a risk that one or more of our property insurers may not be able to fulfill their obligations with respect to claims payments due to a deterioration in its financial condition or may even cancel policies due to increasing costs of providing insurance coverage in certain geographic areas.

Certain types of losses, generally of a catastrophic nature, that result from events described above such as earthquakes, floods, hurricanes, tornados, terrorism, acts of war and pandemics, such as COVID-19, may also be uninsurable or not economically insurable. Inflation, changes in building codes and ordinances, environmental considerations and other factors, including terrorism or acts of war, also might make the insurance proceeds insufficient to repair or replace a property if it is damaged or destroyed. Under these circumstances, the insurance proceeds received might not be adequate to restore our economic position with respect to the affected real property. Any uninsured loss could result in the loss of cash flow from, and the asset value of, the affected property, which could have an adverse effect on our business, financial condition, liquidity and results of operations.

Catastrophic events may disrupt our business.

We have a number of offices located throughout California and a growing regional presence in several other states across the United States. Our corporate headquarters is located in Westlake Village, California and we have additional locations around the greater Los Angeles metropolitan area and elsewhere in the State of California. Many areas of California, including the immediate area around our corporate headquarters, have experienced extensive damage and property loss due to a series of large wildfires in the past several years. California and the other states in which we operate are also prone to other types of natural disasters. In the event of a major earthquake, hurricane, or catastrophic event such as fire, flood, power loss, telecommunications failure, cyber attack, pandemic, war, or terrorist attack, we may be unable to continue our operations and may endure significant business interruptions, reputational harm, delays in servicing our customers and working with our partners, interruptions in the availability of our technology and systems, breaches of data security, and loss of critical data, all of which could have an adverse effect on our future operating results.

Related Party Risks

We rely on PMT as a significant source of financing for, and revenue related to, our mortgage banking business, and the termination of, or material adverse change in, the terms of this relationship, or a material adverse change to PMT or its operations, could adversely affect our business, financial condition, liquidity and results of operations.

PMT is the counterparty that currently acquires all of the newly originated mortgage loans in connection with our correspondent production activities. A significant portion of our income is derived from a fulfillment fee earned in connection with PMT's acquisition of conventional loans. We are able to conduct our correspondent production activities without having to incur the significant additional debt financing that would be required for us to purchase those loans from the originating lender. In the case of government-insured loans, we purchase them from PMT at PMT's cost plus a sourcing fee and fulfill these loans for our own account and sell them, typically by pooling the federally insured or guaranteed loans together into an MBS which Ginnie Mae guarantees. We earn interest income and gains or losses during the holding period and upon the sale of these securities, and we retain the MSRs with respect to the loans. If this relationship with PMT is terminated by PMT or PMT reduces the volume of these loans that it acquires for any reason, we would have to acquire these loans from the correspondent sellers for our own account, something that we may be unable to do, or enter into another similar counterparty arrangement with a third party, which we may not be able to enter into on terms that are as favorable to us, or at all.

The management agreement, the mortgage banking services agreement and certain of the other agreements that we have entered into with PMT contain cross-termination provisions that allow PMT to terminate one or more of those agreements under certain circumstances where another one of such agreements is terminated. Accordingly, the termination of this relationship with PMT, or a material change in the terms thereof that is adverse to us, would likely have a material adverse effect on our business, financial condition, liquidity and results of operations. The terms of these agreements extend until June 30, 2025, subject to automatic renewal for additional 18-month periods, but any of the agreements may be terminated earlier under certain circumstances or otherwise non-renewed. If any agreement is terminated or non-renewed and not replaced by a new agreement, it would materially and adversely affect our ability to continue to execute our business plan.

We expect that PMT will continue to qualify as a REIT for U.S. federal income tax purposes. However, it is possible that PMT may not meet the requirements for qualification as a REIT. If PMT were to lose its REIT status, corporate-level income taxes, would apply to all of PMT's taxable income at federal and state tax rates. Either of these scenarios would potentially impair PMT's financial position and its ability to raise capital, which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

A significant portion of our loan servicing operations are conducted pursuant to subservicing contracts with PMT, and any termination by PMT of these contracts, or a material change in the terms thereof that is adverse to us, would adversely affect our business, financial condition, liquidity and results of operations.

PMT, as the owner of a substantial number of MSR or mortgage loans that we subserve, may, under certain circumstances, terminate our subservicing contract with or without cause, in some instances with little notice and little to no compensation. Upon any such termination, it would be difficult to replace such a large volume of subservicing in a short period of time, or perhaps at all. Accordingly, we may not generate as much revenue from subservicing for other third parties. If we were to have our subservicing terminated by PMT, or if there was a change in the terms under which we perform subservicing for PMT that was material and adverse to us, this would have a material adverse effect on our business, financial condition, liquidity and results of operations.

PMT has an exclusive right to acquire the loans that are produced through our correspondent production activities, which may limit the revenues that we could otherwise earn in respect of those loans.

Our mortgage banking services agreement with PMT requires PLS to provide fulfillment services for correspondent production activities exclusively to PMT as long as PMT has the legal and financial capacity to purchase correspondent loans. As a result, the revenue that we earn with respect to these loans will be limited to the fulfillment fees that we earn in connection with the production of these loans, which may be less than the revenues that we might otherwise be able to realize by acquiring these loans ourselves and selling them in the secondary loan market.

Our financings of MSRs using excess servicing spread (“ESS”) exposes us to significant risks.

We have previously sold to PMT or its subsidiaries, from time to time, the right to receive certain ESS arising from MSRs that we owned or acquired. The ESS represents the difference between our contractual servicing fee with the applicable Agency and the base servicing fee that we retain as compensation for servicing the related mortgage loans upon our sale of the ESS.

As a condition of our sale of the ESS, PMT was required to subordinate its interests in the ESS to those of the applicable Agency. With respect to our Ginnie Mae MSRs, we pledged our interest in such MSRs and PMT’s interest in the related ESS to a special purpose entity, which issues variable funding notes and term notes that are secured by such Ginnie Mae assets and repaid through the cash flows received by the special purpose entity as the lender under a repurchase agreement with PLS. Accordingly, our interest in the Ginnie Mae MSRs and PMT’s interest in the related ESS are also subordinated to the rights of an indenture trustee on behalf of the note holders to which the special purpose entity issues its variable funding notes and term notes under an indenture, pursuant to which the indenture trustee has a blanket lien on all of our Ginnie Mae MSRs (including the ESS we sell to PMT and record as a financing).

The indenture trustee, on behalf of the note holders, may liquidate our Ginnie Mae MSRs along with PMT’s interest in the ESS to the extent there exists an event of default under the indenture. In the event PMT’s ESS is liquidated as a result of certain of our actions or inactions, we generally would be required to indemnify PMT under the applicable spread acquisition agreement. A claim by PMT for the loss of its ESS as a result of our actions or inactions would likely be significant in size. Either of these occurrences could have a material adverse effect on our business, financial condition, liquidity and results of operations.

In connection with PLS’ repurchase agreement with the special purpose entity, we also provide pass through financing to PMT under a repurchase agreement to facilitate its financing of the ESS it acquires from us. The repurchase agreement subjects us to the credit risk of PMT. To the extent PMT defaults in its payments of principal and interest under its repurchase agreement with us, we would still be required to make the allocable and corresponding payments under our repurchase agreement with the special purpose entity. To the extent PMT fails to make such payments of principal and interest to us or otherwise defaults under its repurchase agreement and we are unable to make the allocable and corresponding payments under our repurchase agreement with the special purpose entity, this could also create an event of default that could cause a cross default under other financing arrangements and/or have a material adverse effect on our business, financial condition, liquidity and results of operations.

Risks Related to Our Investment Management Segment

Market conditions could reduce the fair value of the assets that we manage, which would reduce our management and incentive fees.

A portion of the fees that we earn under our investment management agreement is based on the fair value of the assets that we manage. The fair values of the securities and other assets held in the portfolios that we manage and, therefore, our assets under management may decline due to any number of factors beyond our control, including, among others, a decline in housing, the ongoing impact of the COVID-19 pandemic, changes to interest rates, stock or bond market movements, a general economic downturn, political uncertainty or acts of terrorism. The economic outlook cannot be predicted with certainty and we continue to operate in a challenging business environment. If volatile market conditions cause a decline in the fair value of our assets under management, that decline in fair value could materially reduce our management fees and incentive fees under our management contract with PMT and adversely affect our revenues. If our revenues decline without a commensurate reduction in our expenses, our net income will be reduced.

We currently manage assets for a single client, the loss of which could significantly reduce our management and incentive fees and have a material adverse effect on our results of operations.

Our management and incentive fees result from our management of PMT. The term of the management agreement that we have entered into with PMT, as amended, expires on June 30, 2025, subject to automatic renewal for additional 18-month periods, unless terminated earlier in accordance with the terms of the agreement. In the event of a termination of one or more related party agreements by PMT in certain circumstances, we may be entitled to a termination fee under our management agreement. However, the termination of such management agreement and the loss of PMT as a client would significantly affect our investment management segment and negatively impact our management fees and incentive fees.

The historical returns on the assets that we select and manage for PMT, and our resulting management and incentive fees, may not be indicative of future results.

The historical returns of the assets that we manage should not be considered indicative of the future returns on those assets or future returns on other assets that we may select for investment by PMT. The investment performance that is achieved for the assets that we manage varies over time, and the nature and mix of assets we manage has changed significantly over the past several years. As a result, the change and variance in investment performance can be significant. Accordingly, the management and incentive fees that we have earned in the past based on those returns should not be considered indicative of the management or incentive fees that we may earn in the future from managing those same assets or from managing other assets for PMT.

Changes in regulations applicable to our investment management segment could materially and adversely affect our business, financial condition, liquidity and results of operations.

The legislative and regulatory environment in which we operate is constantly evolving. New laws or regulations, or changes in the enforcement of existing laws or regulations, applicable to us and PMT, may adversely affect our business. Our ability to succeed in this environment will depend on our ability to monitor and comply with regulatory changes. Regulatory changes that will affect other market participants are likely to change the way in which we conduct business with our counterparties. The uncertainty regarding the continued implementation of laws and regulations and their impact on the investment management industry and us cannot be predicted at this time but will continue to be a risk for our business.

We may be adversely affected as a result of new or revised legislation or regulations imposed by the SEC, other U.S. or non-U.S. governmental regulatory authorities or self-regulatory organizations that supervise the financial markets. We also may be adversely affected by changes in the interpretation or enforcement of existing laws and rules by these governmental authorities and self-regulatory organizations, as well as by U.S. and non-U.S. courts. It is impossible to determine the extent of the impact of any new laws, regulations or initiatives that may be imposed on us or the markets in which we trade, or whether any of the proposals will become law. Compliance with any new laws or

regulations could add to our compliance burden and costs and adversely affect the manner in which we conduct business, as well as our financial condition, liquidity and results of operations.

Our failure to comply with the extensive amount of regulation applicable to our investment management segment could materially and adversely affect our business, financial condition, liquidity and results of operations.

Our investment management segment is subject to extensive regulation in the United States. These regulations are designed primarily to ensure the integrity of the financial markets and to protect investors in any entity that we advise and are not designed to protect our stockholders. Consequently, these regulations often serve to limit our activities. These requirements relate to, among other things, fiduciary duties to clients, solicitation agreements, conflicts of interest, recordkeeping and reporting requirements, disclosure requirements, limitations on Agency cross and principal transactions between an adviser and advisory clients and general anti-fraud prohibitions. We are required to maintain an effective compliance program, and are subject to routine periodic examinations by the staff of the SEC.

The failure by us or our service providers to comply with applicable laws or regulations, or our failure to design and successfully implement and administer our compliance program, could result in fines, suspensions of individual employees or other sanctions, any of which could have a material adverse effect on our business, financial condition, liquidity and results of operations. Even if an investigation or proceeding did not result in a fine or sanction or the fine or sanction imposed against us or our employees by a regulator were small in monetary amount, the adverse publicity relating to an investigation, proceeding or imposition of these fines or sanctions could harm our reputation.

We may encounter conflicts of interest in trying to appropriately allocate our time and services between activities for our own account and for PMT, or in trying to appropriately allocate investment opportunities among ourselves and for PMT.

Pursuant to our management agreement with PMT, we are obligated to provide PMT with the services of our senior management team, and the members of that team are required to devote such time as is necessary and appropriate, commensurate with the level of activity of PMT. The members of our senior management team may have conflicts in allocating their time and services between our operations and the activities of PMT and any other entities or accounts that we may manage in the future.

In addition, we and the other entities or accounts that we may manage may participate in some of PMT's investments now or in the future, which may not be the result of arm's length negotiations and may involve or later result in potential conflicts between our interests in the investments and those of PMT or such other entities. Any such perceived or actual conflicts of interest could damage our reputation and materially and adversely affect our business, financial condition, liquidity and results of operations.

Risks Related to Our Organizational Structure

HC Partners may be able to significantly influence the outcome of votes of our common stock, or exercise certain other rights pursuant to a stockholder agreement we have entered into with it, and its interests may differ from those of our other public stockholders.

HC Partners, one of our largest investors, has the right under a stockholder agreement to nominate one or two individuals for election to our board of directors depending on the percentage of the voting power of our outstanding shares common stock that it holds, and we are obligated to use our best efforts to cause the election of those director nominees. In addition, the HC Partners' stockholder agreement requires that we obtain their consent with respect to amendments to our certificate of incorporation or bylaws. As a result, HC Partners may be able to significantly influence our management and affairs. In addition, as a result of the size of its individual equity holding it may be able to significantly influence the outcome of all matters requiring stockholder approval, including mergers and other material transactions, and may be able to cause or prevent a change in the composition of our board of directors or a change in control of our Company that could deprive our other public stockholders of an opportunity to receive a premium for their common stock as part of a sale of our company and might ultimately affect the market price of our common stock.

We have not established a minimum dividend payment level and no assurance can be given that we will be able to make dividends to our stockholders in the future at current levels or at all.

In October 2019, we announced the initiation of a quarterly dividend for our common stockholders. We have not established a minimum dividend payment level, and our ability to pay dividends to our stockholders may be materially and adversely affected by the risk factors discussed in our SEC periodic reports. Although we paid, and anticipate continuing to pay, quarterly dividends to our stockholders, our board of directors has the sole discretion to determine the timing, form and amount of any future dividends to our stockholders, and such determination will depend upon, among other factors, our historical and projected results of operations, financial condition, cash flows and liquidity, capital requirements and other expense obligations, debt covenants, contractual legal, tax, regulatory and other restrictions and such other factors as our board of directors may deem relevant from time to time.

As a result, no assurance can be given that we will be able to continue to pay dividends to our stockholders in the future or that the level of any future dividends will achieve a market yield or increase or even be maintained over time, any of which could materially and adversely affect the market price of our common stock.

Anti-takeover provisions in our charter documents and Delaware law might discourage or delay acquisition attempts for us that you might consider favorable.

Our certificate of incorporation and bylaws contain provisions that may make the acquisition of our company more difficult without the approval of our board of directors. Among other things, these provisions:

- authorize the issuance of undesignated preferred stock, the terms of which may be established and the shares of which may be issued without stockholder approval;
- prohibit stockholder action by written consent unless the matter as to which action is being taken has been approved by our board of directors;
- provide that our board of directors is expressly authorized to make, alter, or repeal our bylaws (provided that, if that action adversely affects HC Partners when that entity, together with its affiliates, holds at least 5% of the voting power of our outstanding shares of capital stock, our stockholder agreements provide that such action must be approved by that entity);
- establish advance notice requirements for nominations for elections to our board or for proposing matters that can be acted upon by stockholders at stockholder meetings; and
- prevent a sale of substantially all of our assets or completion of a merger or other business combination that constitutes a change of control without the approval of a majority of our independent directors.

These and other provisions under Delaware law could discourage, delay or prevent a transaction involving a change in control of our company or negatively affect the trading price of our common stock. These provisions could also discourage proxy contests and make it more difficult for you and other stockholders to elect directors of and take other corporate actions.

Our bylaws include an exclusive forum provision that could limit our stockholders' ability to obtain a judicial forum viewed by the stockholders as more favorable for disputes with us or our directors, officers or other employees.

Our bylaws provide that the state or federal court located within the State of Delaware is the exclusive forum for any derivative action or proceeding brought on our behalf; any action asserting a claim of breach of fiduciary duty; any action asserting a claim against us arising pursuant to the Delaware General Corporation Law, our certificate of incorporation or our bylaws; or any action asserting a claim against us that is governed by the internal affairs doctrine. This exclusive forum provision may limit a stockholder's ability to bring a claim in a judicial forum that it finds favorable for disputes with us or our directors, officers or other associates, which may discourage such lawsuits against us and our directors, officers and other employees. Alternatively, if a court were to find the exclusive forum provision contained in our bylaws to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could adversely affect our business, financial condition, liquidity and results of operations.

Ownership of Our Common Stock

The market price and trading volume of our common stock may be volatile, which could result in rapid and substantial losses for our stockholders.

The market price and trading volume of our common stock has fluctuated significantly in the past and may be highly volatile in the future and could be subject to wide fluctuations. In addition, the trading volume in our common stock may fluctuate and cause significant price variations to occur. Further, if the market price of our common stock declines significantly, you may be unable to resell your shares at or above your purchase price, if at all. Some of the factors that could negatively affect the market price or trading volume of our common stock include:

- variations in our actual and anticipated financial and operating results and those expected by investors and analysts;
- changes in the manner that investors and securities analysts who provide research to the marketplace on us analyze the value of our common stock and similar companies;
- changes in recommendations or in estimated financial results published by securities analysts who provide research to the marketplace on us, our competitors or our industry;
- litigation and governmental investigations;
- increases in market interest rates that may lead purchasers of our shares to demand a higher yield;
- announcements by us or our competitors of significant contracts, acquisitions, dispositions, strategic relationships, joint ventures or capital commitments; and
- general market, political and economic conditions, including any such conditions and local conditions in the markets in which our customers are located.

These broad market and industry factors may decrease the market price and trading volume of our common stock, regardless of our actual operating performance.

The market price of our common stock could be negatively affected by sales of substantial amounts of our common stock into the public trading market.

PennyMac was founded in 2008 by members of our executive leadership team and two strategic investors, including HC Partners. Sales of substantial numbers of shares of our common stock into the public trading market by HC Partners, or the perception that such sales could occur, could adversely affect the market price of our common stock and impede our ability to raise capital through the issuance of additional common stock or other equity securities.

The future issuance of additional common stock in connection with our incentive plans, acquisitions or otherwise will dilute all other stockholdings.

As of December 31, 2020, we have an aggregate of 4.2 million shares of common stock authorized and remaining available for future issuance under our 2013 Equity Incentive Plan. We may issue all of these shares of common stock without any action or approval by our stockholders, subject to certain exceptions. We also intend to continue to evaluate acquisition opportunities and may issue common stock in connection with these acquisitions. Any common stock issued in connection with our incentive plans, acquisitions, the exercise of outstanding stock options or otherwise would dilute the percentage ownership held by investors who purchase our common stock.

Future offerings of debt or equity securities by us may adversely affect the market price of our common stock.

In the future, we may attempt to obtain financing or further increase our capital resources by issuing additional shares of our common stock or offering debt or other equity securities, including commercial paper, medium-term notes, senior or subordinated notes, convertible debt securities or shares of preferred stock. The issuance of additional shares of our common stock or other equity securities or securities convertible into equity may dilute the economic and voting rights of our existing stockholders or reduce the market price of our common stock or both. Upon liquidation, holders of such debt securities and preferred stock, if issued, and lenders with respect to other borrowings would receive a distribution of our available assets prior to the holders of our common stock. Debt securities convertible into equity

could be subject to adjustments in the conversion ratio pursuant to which certain events may increase the number of equity securities issuable upon conversion. Preferred stock, if issued, could have a preference with respect to liquidating distributions or a preference with respect to dividend payments that could limit our ability to pay dividends to the holders of our common stock. Any issuance of securities in future offerings may reduce the market price of our common stock and dilute existing stockholders' interests in us.

General Risks

Our risk management efforts may not be effective.

We could incur substantial losses and our business operations could be disrupted if we are unable to effectively identify, manage, monitor, and mitigate financial risks, such as credit risk, interest rate risk, prepayment risk, liquidity risk, and other market-related risks, as well as operational and legal risks related to our business, assets, and liabilities. We also are subject to various laws, regulations and rules that are not industry specific, including employment laws related to employee hiring and termination practices, health and safety laws, environmental laws and other federal, state and local laws, regulations and rules in the jurisdictions in which we operate. Our risk management policies, procedures, and techniques may not be sufficient to identify all of the risks to which we are exposed, mitigate the risks we have identified, or identify additional risks to which we may become subject in the future. Expansion of our business activities may also result in our being exposed to risks to which we have not previously been exposed or may increase our exposure to certain types of risks, and we may not effectively identify, manage, monitor, and mitigate these risks as our business activities change or increase.

Initiating new business activities, developing new products or significantly expanding existing business activities may expose us to new risks and increase our cost of doing business.

Initiating new business activities, developing new products, or significantly expanding existing business activities, such as our growth in broker direct and consumer direct lending and our significant increase in the number of employees in fiscal year 2020, are ways to grow our businesses and respond to changing circumstances in our industry; however, they may expose us to new risks and regulatory compliance requirements. We cannot be certain that we will be able to manage these risks and compliance requirements effectively. Furthermore, our efforts may not succeed, and any revenues we earn from any new or expanded business initiative may not be sufficient to offset the initial and ongoing costs of that initiative, which would result in a loss with respect to that initiative.

We could be harmed by misconduct or fraud that is difficult to detect.

We are exposed to risks relating to misconduct by our employees, contractors we use, or other third parties with whom we have relationships. For example, our employees could execute unauthorized transactions, use our assets improperly or without authorization, perform improper activities, use confidential information for improper purposes, or misrecord or otherwise try to hide improper activities from us. This type of misconduct could also relate to assets we manage for others through our investment advisory subsidiary, and can be difficult to detect. If not prevented or detected, misconduct by employees, contractors, or others could result in losses, claims or enforcement actions against us, or could seriously harm our reputation. Our controls may not be effective in detecting this type of activity.

If we fail to maintain an effective system of internal controls, we may not be able to accurately determine our financial results or prevent fraud. As a result, our stockholders could lose confidence in our financial results, which could harm our business and the market value of our common stock.

Effective internal controls are necessary for us to provide reliable financial reports and effectively prevent fraud. We may in the future discover areas of our internal controls that need improvement. Section 404 of the Sarbanes-Oxley Act of 2002 (the "Sarbanes-Oxley Act") requires that we evaluate and report on our internal control over financial reporting. We cannot be certain that we will be successful in maintaining adequate control over our financial reporting and financial processes. In addition, the ongoing COVID-19 pandemic has created unique challenges resulting from employees working remotely. Furthermore, as we rapidly grow our businesses, our internal controls will

become more complex, and we will require significantly more resources to ensure our internal controls remain effective. Section 404(b) of the Sarbanes-Oxley Act requires our auditors to formally attest to and report on the effectiveness of our internal control over financial reporting.

If we cannot maintain effective internal control over financial reporting, or our independent registered public accounting firm cannot provide an unqualified attestation report on the effectiveness of our internal control over financial reporting, investor confidence and, in turn, the market price of our common stock could decline. If we or our independent auditors discover a material weakness, the disclosure of that fact, even if quickly remedied, could result in an event of default under one or more of our lending arrangements and/or reduce the market value of shares of our common stock. Additionally, the existence of any material weakness or significant deficiency could require management to devote significant time and incur significant expense to remediate any such material weakness or significant deficiency, and management may not be able to remediate any such material weakness or significant deficiency in a timely manner, or at all. Accordingly, our failure to maintain effective internal control over financial reporting could result in misstatements of our financial results or restatements of our financial statements or otherwise have a material adverse effect on our business, financial condition, liquidity and results of operations.

Cybersecurity risks, cyber incidents and technology failures may adversely affect our business by causing a disruption to our operations, a compromise or corruption of our confidential information, and/or damage to our business relationships, all of which could negatively impact our financial results.

A cyber incident is considered to be any adverse event that threatens the confidentiality, integrity or availability of our information resources. These incidents may be an intentional attack or an unintentional event and could involve gaining unauthorized access to our information systems for purposes of theft of certain personally identifiable information of consumers, misappropriating assets, stealing confidential information, corrupting data or causing operational disruption. The result of these incidents may include disrupted operations, misstated or unreliable financial data, liability for stolen assets or information, increased cybersecurity protection and insurance costs, litigation and damage to our investor relationships.

As our reliance on rapidly changing technology has increased, so have the risks posed to our information systems, both proprietary and those provided to us by third-party service providers including cloud-based computing service providers. System disruptions and failures caused by fire, power loss, telecommunications outages, unauthorized intrusion, computer viruses and disabling devices, natural disasters and other similar events may interrupt or delay our ability to provide services to our customers.

Despite our efforts to ensure the integrity of our systems our investment in significant physical and technological security measures, employee training, contractual precautions and business continuity plans, and our implementation of policies and procedures designed to help mitigate cybersecurity risks and cyber intrusions, there can be no assurance that any such cyber intrusions will not occur or, if they do occur, that they will be adequately addressed. We also may not be able to anticipate or implement effective preventive measures against all security breaches, especially because the methods of attack change frequently or may not be recognized until after such attack has been launched, and because security attacks can originate from a wide variety of sources, including third parties such as persons involved with organized crime or associated with external service providers. We are also held accountable for the actions and inactions of our third-party vendors regarding cybersecurity and other consumer-related matters.

Any of the foregoing events could result in violations of applicable privacy and other laws, financial loss to us or to our customers, loss of confidence in our security measures, customer dissatisfaction, additional regulatory scrutiny, significant litigation exposure and harm to our reputation, any of which could have a material adverse effect on our business, financial condition, liquidity and results of operations, any of which could have a material adverse effect on our business, financial condition, liquidity and results of operations.

The industry in which we operate is highly competitive, and is likely to become more competitive, and decreased margins resulting from increased competition or our inability to compete successfully could adversely affect our business, financial condition, liquidity and results of operations.

We operate in a highly competitive industry that could become even more competitive as a result of economic, legislative, regulatory and technological changes. With respect to mortgage loan production, we face competition in such areas as mortgage loan offerings, rates, fees and customer service. With respect to servicing, we face competition in areas such as fees, cost to service and service levels, including our performance in reducing delinquencies and entering into successful modifications.

Large commercial banks and savings institutions and other non-bank mortgage originators and servicers are increasingly competitive in the origination or acquisition of newly originated mortgage loans and the servicing of mortgage loans. Many of these institutions have significantly greater resources and access to capital and financing arrangements than we do, which may give them the benefit of a lower cost of funds. Additionally, our existing and potential competitors may decide to modify their business models to compete more directly with our loan production and servicing models. As more non-bank entities enter these markets and as more commercial banks aggressively compete, our mortgage banking businesses may generate lower volumes and/or margins. If we are unable to grow our loan production volumes or if our margins become compressed, then our business, financial condition, liquidity and results of operations could be materially and adversely affected.

In fiscal year 2020, we significantly increased the number of employees to facilitate our business growth and our future success will depend on our ability to identify, hire, develop, motivate and retain highly qualified personnel. Trained and experienced personnel are in high demand by our competitors and may be in short supply in some areas. In addition, we invest significant time and expense in training our employees, which increases their value to competitors who may seek to recruit them. If we are unable to attract and retain such personnel, we may not be able to take advantage of future growth opportunities and this could materially affect our business, financial condition and results of operations.

In addition, technological advances and heightened e-commerce activities have increased consumers' access to products and services. This has intensified competition among banks and non-banks in offering and servicing mortgage loans. We may be unable to compete successfully in our mortgage banking businesses and this could materially and adversely affect our business, financial condition, liquidity and results of operations.

Item 1B. Unresolved Staff Comments

None.

Item 2. Properties

Our corporate offices are housed in 66,000 square feet of leased facilities, located at 3043 Townsgate Road, Westlake Village, California 91361 where we conduct executive management for all of our businesses and investment management activities.

Our loan servicing operations are primarily housed in a 142,000 square foot leased facility located in Moorpark, CA, a 116,000 square foot facility in Fort Worth, TX and a 51,000 square foot facility in Summerlin, NV.

Our consumer direct lending business occupies a 36,000 square foot leased facility in Pasadena, CA. Much of our loan processing activity is performed in a leased 81,000 square foot facility in close proximity to our corporate offices. We lease an additional 102,000 square feet in Plano, TX, 90,000 square feet in Tampa, FL, 75,000 square feet in Phoenix AZ and 30,000 square feet in St. Louis, MO primarily for our correspondent production activities. We have three loan production centers located in Roseville, CA, Honolulu, HI, Edina, MN, and one collocated in our Summerlin, NV office.

Our information technology division is housed in a 50,000 square foot facility in Agoura Hills, CA and we lease a few small locations throughout the country, generally housing loan production and servicing activities.

The financial commitments of our leases are disclosed in Note—10 *Leases* to our consolidated financial statements included in Item 8 of this Report.

Item 3. Legal Proceedings

From time to time, the Company may be involved in various legal and regulatory proceedings, lawsuits and other claims arising in the ordinary course of its business. The amount, if any, of ultimate liability with respect to such matters cannot be determined, but despite the inherent uncertainties of litigation, management currently believes that the ultimate disposition of any such proceedings and exposure will not have, individually or taken together, a material adverse effect on the financial condition, results of operations, or cash flows of the Company. Set forth below are material updates to legal proceedings of the Company.

On December 20, 2018, a purported shareholder of the Company filed a complaint in a putative class and derivative action in the Court of Chancery of the State of Delaware (the “Delaware Court”), captioned *Robert Garfield v. BlackRock Mortgage Ventures, LLC et al.*, Case No. 2018-0917-KSJM (the “Garfield Action”). The Garfield Action alleges, among other things, that certain current directors and officers of the Company breached their fiduciary duties to the Company and its shareholders by, among other things, agreeing to and entering into the Reorganization without ensuring that the Reorganization was entirely fair to the Company or public shareholders. The Reorganization was approved by 99.8% of voting shareholders on October 24, 2018. On December 19, 2019, the Delaware Court denied a motion to dismiss filed by the Company and certain of its directors and officers. While the Company and its co-defendants believe the Garfield Action is without merit and expressly disclaim any wrongdoing, they have collectively agreed to settle the Garfield Action for an amount equal to \$6.85 million in order to avoid the ongoing costs of litigation and further distractions to their respective businesses. A settlement agreement was filed with the Delaware Court on October 9, 2020, and was approved on February 11, 2021. The Company’s share of the settlement amount will be paid entirely by one of the Company’s insurers.

On November 5, 2019, Black Knight Servicing Technologies, LLC, a wholly-owned indirect subsidiary of Black Knight, Inc. (“BKI”), filed a Complaint and Demand for Jury Trial in the Circuit Court for the Fourth Judicial Circuit in and for Duval County, Florida (the “Florida State Court”), captioned *Black Knight Servicing Technologies, LLC v. PennyMac Loan Services, LLC*, Case No. 2019-CA-007908 (the “BKI Complaint”). Allegations contained within the BKI Complaint include breach of contract and misappropriation of MSP® System trade secrets in order to develop an imitation mortgage-processing system intended to replace the MSP® System. The BKI Complaint seeks damages for breach of contract and misappropriation of trade secrets, injunctive relief under the Florida Uniform Trade Secrets Act and declaratory judgment of ownership of all intellectual property and software developed by or on behalf of PLS as a result of its wrongful use of and access to the MSP® System and related trade secret and confidential information. On March 30, 2020, the Florida State Court granted a motion to compel arbitration filed by the Company. Consequently, on April 27, 2020, PennyMac dismissed its federal court action without prejudice to pursue those claims in arbitration as well. While no assurance can be provided as to the ultimate outcome of this claim or the amount of any losses to the Company, the Company believes the BKI Complaint is without merit and plans to vigorously defend the matter, which remains pending.

On January 7, 2021, PLS received a letter from the CFPB notifying PLS that, in accordance with the CFPB's discretionary Notice and Opportunity to Respond and Advise ("NORA") process, the CFPB's Office of Enforcement was considering recommending that the CFPB take legal action against PLS for alleged violations of the Real Estate Settlement Procedures Act and Truth in Lending Act. The CFPB's examination covered the period from March 2015 through September 2016. Should the CFPB commence an action, it may seek restitution, civil monetary penalties, injunctive relief, or other corrective action, the extent of which remains uncertain at this time. Notably, certain of the alleged violations were originally self-identified by PLS and remediated prior to the CFPB's examination, and all alleged violations were fully remediated as of August 2017. PLS confirmed these remediation actions as well as full restitution to any affected borrowers in its response to the NORA letter on February 08, 2021. While the NORA process remains open and pending at this time, and there can be no assurance as to the nature or extent of any actions taken by the CFPB with regard to these alleged violations, we do not believe that the ultimate resolution of this matter will have a material adverse effect on our financial statements or operations.

Item 4. *Mine Safety Disclosures*

Not applicable.

PART II

Item 5. *Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities*

Our shares of common stock are listed on the New York Stock Exchange (Symbol: PFSI). As of February 22, 2021, our shares of common stock were held by 17 holders of record.

We initiated a quarterly dividend for common stockholders in October 2019. The dividend level is reviewed each quarter and determined based on a number of factors, including, among other things, our earnings, our financial condition, growth outlook, the capital required to support ongoing growth opportunities and compliance with other internal and external requirements. Payments of dividends are subject to approval by our board of directors. Our ability to pay dividends may be adversely affected for the reasons described in Item 1A of this Report in the section entitled *Risk Factors*.

Unregistered Sales of Equity Securities and Use of Proceeds

There were no sales of unregistered equity securities during the year ended December 31, 2020.

Repurchase of our Common Stock

The following table summarized the stock repurchase activity for the quarter ended December 31, 2020:

	Total number of shares purchased	Average price paid per share	Total number of shares purchased as part of publicly announced plans or program (1)	Approximate dollar value of shares that may yet be purchased under the plans or program (1)
October 1, 2020 – October 31, 2020	—	\$ —	—	\$ 236,842,078
November 1, 2020 – November 30, 2020	1,169,568	\$ 55.86	1,169,568	\$ 171,509,814
December 1, 2020 – December 31, 2020	389,194	\$ 61.50	389,194	\$ 147,572,535
Total	1,558,762	\$ 57.27	1,558,762	\$ 147,572,535

- (1) In February 2021, our board of directors approved an increase to our common stock repurchase program from \$500 million to \$1 billion. The stock repurchase program does not require us to purchase a specific number of shares, and the timing and amount of any shares repurchased are based on market conditions and other factors, including price, regulatory requirements and capital availability. Stock repurchases may be effected through negotiated transactions or open market purchases, including pursuant to a trading plan implemented pursuant to

Rule 10b5-1 of the Securities Exchange Act of 1934, as amended. The stock repurchase program does not have an expiration date but may be suspended, modified or discontinued at any time without prior notice.

Item 6. Selected Financial Data

Not presented.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

Critical Accounting Policies

Preparation of financial statements in compliance with accounting principles generally accepted in the United States ("GAAP") requires us to make estimates that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, and revenues and expenses during the reporting period. Certain of these estimates significantly influence the portrayal of our financial condition and results, and they require us to make difficult, subjective or complex judgments. Our critical accounting policies primarily relate to our fair value estimates.

Fair Value

We group assets measured at or based on fair value in three levels based on the markets in which the assets are traded and the observability of the inputs used to determine fair value. These levels are:

Level/Description	December 31, 2020		
	Carrying value of assets (1)	Percentage of Total assets	Percentage of Total stockholders' equity
	(in thousands)		
Level 1: Prices determined using quoted prices in active markets for identical assets or liabilities.	\$ 23,233	0%	1%
Level 2: Prices determined using other significant observable inputs. Observable inputs are inputs that other market participants would use in pricing an asset or liability and are developed based on market data obtained from sources independent of us.	6,965,597	22%	206%
Level 3: Prices determined using significant unobservable inputs. Unobservable inputs reflect our judgements about the factors that market participants use in pricing an asset or liability, and are based on the best information available in the circumstances.	7,948,462	25%	235%
Total assets measured at or based on fair value (1)	\$ 14,937,292	47%	441%
Total assets	\$ 31,597,795		
Total stockholders' equity	\$ 3,389,388		

(1) Includes assets measured on both a recurring and nonrecurring basis based on the accounting principles applicable to the specific asset or liability and whether we have elected to carry the asset or liability at its fair value.

At December 31, 2020, \$14.9 billion or 47% of our total assets were carried at fair value on a recurring basis and \$12.2 million (real estate acquired in settlement of loans ("REO")), were carried based on fair value on a non-recurring basis when fair value indicates evidence of impairment of individual properties.

Changes in fair value of our holdings of assets carried at fair value have significant effects on our financial position and results of operations. As summarized above, changes in fair values of “Level 1” and “Level 2” fair value assets are determinable with reference to direct quotes in active markets on the measurement date in the case of “Level 1” assets, or reference to publicly available reference interest rates and credit spreads and prices of similar assets in the case of “Level 2” assets.

\$7.9 billion or 25% of our total assets are measured using “Level 3” fair value inputs – significant inputs where there is difficulty in observing the inputs used by market participants in establishing fair value. Different approaches to valuing those assets or changes in inputs to measurement of these assets can have a significant effect on the amounts reported for these items including their reported balances and their effects on our income.

During the three years ended December 31, 2020, we recognized significant changes in the fair value of our holdings of “Level 3” fair value assets and liabilities as shown below:

Year ended December 31,	Interest rate lock commitments	Loans held for sale at fair value	Mortgage servicing rights (1)	Excess servicing spread financing	Mortgage servicing liabilities (1)	Total
			(positive (negative) effects on income in thousands)			
2020	\$ 1,254,235	\$ 127,780	\$ (1,078,084)	\$ 24,970	\$ (31,757)	\$ 297,144
2019	\$ 331,067	\$ (6,332)	\$ (550,666)	\$ 9,256	\$ (8,377)	\$ (225,052)
2018	\$ 1,285	\$ 158	\$ 174,458	\$ (8,500)	\$ (10,787)	\$ 156,614

(1) Excluding changes in fair value attributable to realization of cash flows.

The changes above primarily reflect changes attributable to our observations of changes in the markets for those assets and liabilities as opposed to changes in accounting policies or approaches to the valuation of those instruments.

As a result of the difficulty in observing certain significant valuation inputs affecting our “Level 3” fair value assets and liabilities, we are required to make judgments regarding these items’ fair values. Different persons in possession of the same facts may reasonably arrive at different conclusions as to the inputs to be applied in valuing these assets and liabilities and their fair values. Such differences may result in significantly different fair value measurements. Likewise, due to the general illiquidity of some of these assets, subsequent transactions may be at values significantly different from those reported.

Because the fair value of “Level 3” fair value assets and liabilities are difficult to estimate, our valuation process includes performance of these items’ fair value estimation by specialized staff with significant senior management oversight. We have assigned the responsibility for estimating the fair values of non-interest rate lock commitment (“IRLC”) “Level 3” fair value assets and liabilities to our Financial Analysis and Valuation group (the “FAV group”), which is responsible for valuing and monitoring these items and maintenance of our valuation policies and procedures for non-IRLC assets and liabilities. The FAV group submits the results of its valuations to our senior management valuation committee, which oversees the valuations. Our senior management valuation committee includes the Company’s chief financial, investment and risk officers as well as other senior members of the Company’s finance, capital markets and risk management staffs.

The fair value of our IRLCs is developed by our Capital Markets Risk Management staff and is reviewed by our Capital Markets Operations group.

Following is a discussion of our approach to measuring the balance sheet items that are most affected by “Level 3” fair value estimates.

Loans Held for Sale

We carry loans at their fair values. We recognize changes in the fair value of loans in current period income as a component of *Net gains on loans held for sale at fair value*. How we estimate the fair value of loans is based on whether the loans are saleable into active markets with observable fair value inputs.

- We categorize loans that are saleable into active markets as “Level 2” fair value assets. We estimate the fair value of such loans using their quoted market price or market price equivalent. At December 31, 2020, we held \$6.9 billion of such loans.
- We categorize loans that are not saleable into active markets as “Level 3” fair value assets. “Level 3” fair value loans arise primarily from two sources:
 - We may purchase certain delinquent government guaranteed or insured loans from Ginnie Mae guaranteed securitizations included in our loan servicing portfolio. Our right to purchase such loans arises as the result of the loan being at least three months delinquent when we buy the loan. Our ability to purchase delinquent loans provides us with an alternative to our obligation to continue advancing principal and interest at the coupon rate of the related Ginnie Mae security. Such repurchased loans (“early buyout” or “EBO” loans) may be resold to investors and thereafter may be repurchased to the extent eligible for resale into a new Ginnie Mae guaranteed security. Such eligibility occurs when the repurchased loans become current either through the borrower’s reperformance or through completion of a modification of the loan’s terms or after six months of timely payments following the completion of certain types of payment deferral programs. We measure such loans using “Level 3” fair value inputs and at December 31, 2020, we held \$4.7 billion of such loans.
 - Certain of our loans may become non-saleable into active markets due to our identification of one or more defects. At December 31 2020, we held \$13.8 million of such loans.

We use a discounted cash flow model to estimate the fair value of “Level 3” fair value loans. The significant unobservable inputs used in the fair value measurement of our “Level 3” fair value loans held for sale are discount rates, home price projections and prepayment speeds. Significant changes in any of those inputs in isolation could result in a significant change to the loans’ fair value measurement.

Interest Rate Lock Commitments

Our net gains on loans held for sale include our estimates of the gains or losses we expect to realize upon the sale of loans we have contractually committed to fund or purchase but have not yet funded, purchased or sold. We recognize a substantial portion of our net gains on loans held for sale at fair value before we fund or purchase the loans as the result of these commitments. We call these commitments IRLCs. We recognize the fair value of IRLCs at the time we make the commitment to the correspondent seller, broker or loan applicant and adjust the fair value of such IRLCs as the loan approaches the point of funding or purchase or the prospective transaction is canceled.

We carry IRLCs as either *Derivative assets* or *Derivative liabilities* on our consolidated balance sheet. The fair value of an IRLC is transferred to *Loans held for sale at fair value* when the loan is funded or purchased.

An active, observable market for IRLCs does not exist. Therefore, we measure the fair value of IRLCs using methods we believe that market participants use in pricing IRLCs. We estimate the fair value of an IRLC based on observable Agency MBS prices, our estimates of the fair value of the MSR we expect to receive in the sale of the loans and the probability that we will fund or purchase the loan (the “pull-through rate”).

Pull-through rates and MSR fair values are based on our estimates as these inputs are difficult to observe in the marketplace. Our estimate of the probability that a loan will be funded and market interest rates are updated as the loans move through the funding or purchase process and as market interest rates change and may result in significant changes in our estimates of the fair value of the IRLCs. Such changes are reflected in the change in fair value of IRLCs which is a component of our *Net gains on loans held for sale at fair value* in the period of the change. The financial effects of changes in these inputs are generally inversely correlated. Increasing interest rates have a positive effect on the fair value of the MSR component of IRLC fair value but increase the pull-through rate for the loan principal and interest payment cash flow component, which decreases in fair value.

A shift in our assessment of an input to the valuation of IRLCs can have a significant effect on the amount of *Net gains on loans held for sale at fair value* for the period. We believe that the most significant “Level 3” fair value input to the measurement of IRLCs is the pull-through rate. At December 31, 2020, we held \$677.0 million of net IRLC assets at fair value. Following is a quantitative summary of the effect of changes in the pull-through rate input on the fair value of IRLCs at December 31, 2020:

Change in input (1)	Effect on fair value of IRLC of a change in pull-through rate	
	(in thousands)	
(20)%	\$	(169,132)
(10)%	\$	(84,358)
(5)%	\$	(41,971)
5 %	\$	39,660
10 %	\$	75,157
20 %	\$	130,170

(1) The upward shift in input amount on a per-loan basis is limited to the amount of shift required to reach a 100% pull-through rate.

The preceding analysis holds constant all of the other inputs to show an estimate of the effect on fair value of a change in the pull-through rate. We expect that in a market shock event, multiple inputs would be affected and the effects of these changes may compound or counteract each other. Therefore the preceding analysis is not a projection of the effects of a shock event or a change in our estimate of an input and should not be relied upon as an earnings projection.

Mortgage Servicing Rights

MSRs represent the fair value assigned to contracts that obligate us to service the mortgage loans on behalf of the owners of the mortgage loans in exchange for servicing fees and the right to collect certain ancillary income from the borrower. We recognize MSRs at our estimate of the fair value of the contract to service the loans.

We include changes in fair value of MSRs in current period income as a component of *Net loan servicing fees—Change in fair value of mortgage servicing rights and mortgage servicing liabilities*. Both our estimate of the change in fair value attributable to realization of cash flows and of the change in fair value are affected by changes in fair value inputs. During the year ended December 31, 2020, we recognized a \$1.5 billion net reduction in fair value of MSRs: \$431.1 million of the reduction was due to realization of cash flows underlying the fair value of MSR and \$1.1 billion of the reduction was due to changes in fair value inputs.

We classify MSRs as “Level 3” fair value assets and determine their fair value using a discounted cash flow approach. We believe the most significant “Level 3” fair value inputs to the valuation of MSRs are the pricing spread (used to develop periodic discount rates), prepayment speed and annual per-loan cost of servicing.

A shift in the market for MSRs or a change in our assessment of an input to the valuation of MSRs can have a significant effect on their fair value and in our income for the period. The fair value of MSRs that we held at December 31, 2020 was \$2.6 billion.

Following is a summary of the effect on fair value of MSRs of various changes to these key inputs at December 31, 2020:

Change in input	Effect on fair value of MSRs of a change in input value		
	Pricing spread	Prepayment speed	Servicing cost
		(in thousands)	
(20)%	\$ 205,305	\$ 297,863	\$ 101,929
(10)%	\$ 98,449	\$ 142,208	\$ 50,964
(5)%	\$ 48,232	\$ 69,521	\$ 25,482
5 %	\$ (46,356)	\$ (66,536)	\$ (25,482)
10 %	\$ (90,936)	\$ (130,253)	\$ (50,964)
20 %	\$ (175,137)	\$ (249,843)	\$ (101,929)

The preceding analyses hold constant all of the inputs other than the input that is being changed to show an estimate of the effect on fair value of a change in a specific input. We expect that in a market shock event, multiple inputs would be affected and the effects of these changes may compound or counteract each other. Therefore the preceding analyses are not projections of the effects of a shock event or a change in our estimate of an input and should not be relied upon as earnings projections.

Excess Servicing Spread Financing

We finance a portion of the cost of Agency MSRs that we purchase from non-affiliate sellers through the sale to PMT of the servicing spread in excess of a specified level. We carry our ESS at fair value.

Because the ESS is a claim to a portion of the cash flows from MSRs, the valuation of the ESS is similar to that of MSRs. We use the same discounted cash flow approach to measure the ESS and the related MSRs except that certain inputs relating to the cost to service the mortgage loans underlying the MSRs and certain ancillary income are not included in the ESS valuation as these cash flows do not accrue to the holder of the ESS.

A shift in the market for, or a change in our assessment of an input to, the valuation of ESS can have a significant effect on the fair value of ESS and in our income for the period. However, we believe that this change will be offset to a great extent by a change in the fair value of the MSRs that the ESS is financing. We record changes in the fair value of ESS in *Net loan servicing fees—Change in fair value of excess servicing spread payable to PennyMac Mortgage Investment Trust*. During the year ended December 31, 2020, we recorded \$25.0 million of net gains due to changes in fair value of ESS.

We believe that the most significant “Level 3” fair value inputs to the valuation of ESS are the pricing spread (used to develop periodic discount rates) and prepayment speed. At December 31, 2020, we carried \$131.8 million of ESS at fair value. Following is a summary of the effect on fair value of various changes to these inputs at December 31, 2020:

Change in input	Effect on fair value of excess servicing spread of a change in input value		
	Pricing spread		Prepayment speed
	(in thousands)		
(20)%	\$	5,766	\$ 13,977
(10)%	\$	2,824	\$ 6,701
(5)%	\$	1,397	\$ 3,282
5 %	\$	(1,369)	\$ (3,154)
10 %	\$	(2,711)	\$ (6,185)
20 %	\$	(5,316)	\$ (11,907)

The preceding analyses hold constant all of the inputs other than the input that is being changed to show an estimate of the effect on fair value of a change in that specific input. We expect that in a market shock event, multiple inputs would be affected and the effects of these changes may compound or counteract each other. Therefore the preceding analyses are not projections of the effects of a shock event or a change in our estimate of an input and should not be relied upon as earnings projections.

Accounting Developments

Refer to Note 3 – *Significant Accounting Policies – Recently Issued Accounting Pronouncements* to our consolidated financial statements for a discussion of recent accounting developments and the expected effect on the Company.

Results of Operations

Our results of operations are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(dollars in thousands except closing prices and per share amounts)		
Revenues:			
Net gains on loans held for sale at fair value	\$ 2,740,785	\$ 725,528	\$ 249,022
Loan origination fees	285,551	174,156	101,641
Fulfillment fees from PennyMac Mortgage Investment Trust	222,200	160,610	81,350
Net loan servicing fees	439,448	293,665	445,393
Net interest (expense) income	(24,525)	76,721	71,819
Management fees	34,538	36,492	24,104
Other	7,600	10,232	11,300
Total net revenue	3,705,597	1,477,404	984,629
Expenses:			
Compensation	738,569	503,458	403,270
Servicing	256,934	164,697	137,104
Loan origination	219,746	117,338	27,398
Other	249,739	162,467	149,160
Total expenses	1,464,988	947,960	716,932
Income before provision for income taxes	2,240,609	529,444	267,697
Provision for income taxes	593,725	136,479	23,254
Net income	\$ 1,646,884	\$ 392,965	\$ 244,443
Earnings per share			
Basic	\$ 21.91	\$ 5.02	\$ 2.62
Diluted	\$ 20.92	\$ 4.89	\$ 2.59
Return on average common stockholders' equity	61.4 %	21.6 %	12.7 %
Income before provision for income taxes by segment:			
Mortgage banking:			
Production	\$ 1,964,121	\$ 527,834	\$ 87,266
Servicing	262,144	(14,751)	172,302
Total mortgage banking	2,226,265	513,083	259,568
Investment management	14,344	16,361	7,003
Non-segment activities (1)	—	—	1,126
Adjusted Earning Before Interest, Taxes, Depreciation and Amortization ("EBITDA")	\$ 2,240,609	\$ 529,444	\$ 267,697
(2)	\$ 2,488,716	\$ 726,140	\$ 274,196
During the year:			
Interest rate lock commitments issued	\$ 125,614,670	\$ 72,698,014	\$ 44,786,584
Common stock closing prices:			
High	\$ 69.49	\$ 34.45	\$ 25.20
Low	\$ 16.90	\$ 20.34	\$ 18.77
At end of year	\$ 65.62	\$ 34.04	\$ 21.26
At end of year:			
Interest rate lock commitments outstanding	20,624,535	7,122,316	2,805,400
Unpaid principal balance of loan servicing portfolio:			
Owned:			
Mortgage servicing rights	\$ 238,410,809	\$ 225,787,104	\$ 201,054,144
Mortgage servicing liabilities	2,857,492	2,758,454	1,160,938
Loans held for sale	11,063,938	4,724,006	2,420,636
	252,332,239	233,269,564	204,635,718
Subserviced for PMT	174,418,591	135,414,668	94,658,154
	\$ 426,750,830	\$ 368,684,232	\$ 299,293,872
Net assets of PennyMac Mortgage Investment Trust	\$ 2,296,859	\$ 2,450,916	\$ 1,556,132
Book value per share	\$ 47.80	\$ 26.26	\$ 21.34

(1) Represents *Repricing of payable to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement.*

- (2) To provide investors with information we believe provides supplemental information that is useful to investors in addition to our results as determined by GAAP, we disclose Adjusted EBITDA as a non-GAAP measure which is a measure that is frequently used in our industry to measure performance. Adjusted EBITDA is not a financial measure calculated in accordance with GAAP and should not be considered as a substitute for net income, or any other performance measure calculated in accordance with GAAP.

We define “Adjusted EBITDA” as net income attributable to our common stockholders before net income attributable to noncontrolling interest plus provision for income taxes, depreciation and amortization, excluding decrease (increase) in fair value of MSRs and MSLs due to changes in valuation inputs used in the valuation model, increase (decrease) in fair value of ESS payable to PMT, hedging losses (gains) associated with MSRs, stock-based compensation and interest expense on corporate debt or corporate revolving credit facilities and capital leases to the extent such items existed in the years presented.

We believe that the presentation of Adjusted EBITDA provides useful information to investors regarding our results of operations because each measure assists both investors and management in analyzing and benchmarking the performance and value of our business. However, other companies may define Adjusted EBITDA differently, and as a result, our measures of Adjusted EBITDA may not be directly comparable to those of other companies.

Adjusted EBITDA measures have limitations as analytical tools, and should not be considered in isolation or as a substitute for analysis of our results as reported under U.S. GAAP. Some of these limitations are:

- they do not reflect every cash expenditure, future requirements for capital expenditures or contractual commitments;
- they do not reflect the significant interest expense or the cash requirements necessary to service interest or principal payment on our debt; and
- they are not adjusted for all non-cash income or expense items that are reflected in our consolidated statements of cash flows.

Because of these limitations, Adjusted EBITDA measures are not intended as alternatives to net income as an indicator of our operating performance and should not be considered as measures of cash available to us to invest in the growth of our business or as measures of cash that will be available to us to meet our obligations.

The following table presents a reconciliation of Adjusted EBITDA to our net income, the most directly comparable financial measure calculated and presented in accordance with GAAP, for each of the years indicated:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Net income attributable to PFSI common stockholders	\$ 1,646,884	\$ 392,965	\$ 87,694
Net income attributable to noncontrolling interest	—	—	156,749
Net income	1,646,884	392,965	244,443
Provision for income taxes	593,725	136,479	23,254
Income before provisions for income taxes	2,240,609	529,444	267,697
Depreciation and amortization	25,575	15,021	12,925
Decrease (increase) in fair value of MSRs and MSLs due to changes in valuation inputs used in valuation model	1,109,841	559,043	(163,671)
(Decrease) increase in fair value of ESS payable to PennyMac Mortgage Investment Trust	(24,970)	(9,256)	8,500
Hedging (gains) losses associated with MSRs	(918,180)	(395,497)	121,045
Stock-based compensation	45,105	24,771	25,251
Interest expense on corporate debt or corporate revolving credit facilities and capital lease	10,736	2,614	2,449
Adjusted EBITDA	<u>\$ 2,488,716</u>	<u>\$ 726,140</u>	<u>\$ 274,196</u>

Comparison of the years ended December 31, 2020, 2019 and 2018

For the year ended December 31, 2020, we recorded income before provision for income taxes of \$2.2 billion, an increase of \$1.7 billion or 323% from 2019. The increase was primarily due to an increase in production income (*Net gains on loans held for sale at fair value, Loan origination fees and Fulfillment fees from PennyMac Mortgage Investment Trust*) which reflects higher production volume and improved margins, and an increase in *Net loan servicing fees* primarily due to growth in our loan servicing portfolio and an increase in income from the re-performance of loans bought out of Ginnie Mae securities for potential resecuritization, partially offset by an increase in total expenses. The increase in total expense was mainly due to increases in compensation, servicing and loan origination expenses reflecting the continuing growth of our mortgage banking activities and the impact of the COVID-19 pandemic on our servicing portfolio and operations.

During the year ended December 31, 2019, we recorded net income of \$393.0 million, an increase of \$148.5 million, or 61%, from 2018. The increase is due to an increase of \$492.8 million in total net revenue, partially offset by an increase of \$231.0 million in total expenses and \$113.2 million in provision for income taxes. The increase in total expenses was primarily due to increases in compensation and loan origination expenses, reflecting the continuing growth of our mortgage banking activities. The provision for income taxes increased significantly as a result of the Reorganization which was completed in late 2018. The increase in total revenue was primarily due to an increase of \$476.5 million in *Net gains on loans held for sale at fair value*, \$79.3 million in *Fulfillment fees from PennyMac Mortgage Invest Trust*, and \$72.5 million in *Loan origination fees* resulting from higher production volume and improved profit margins, which was partially offset by a decrease of \$151.7 million in *Net loan servicing fees* primarily attributable to the effect of lower interest rates on the fair value of our MSRs that resulted in fair value losses net of hedging results compared to the year ended December 31, 2018.

Before the onset of the COVID-19 pandemic, the mortgage origination market was experiencing healthy demand owing to historically low interest rates in the United States. The government's response to the onset of the COVID-19 pandemic, including fiscal stimulus and infusions of additional liquidity by the Federal Reserve into financial markets, acted to further lower mortgage interest rates. These developments have acted to sustain heightened demand for new mortgage loans despite the slowdown in overall economic activity. The mortgage origination market for 2019 was \$2.3 trillion; for 2020, the origination market is estimated to be \$4.0 trillion and for 2021, is forecasted to be \$3.3 trillion. This increase in demand for mortgage loans, combined with constraints on mortgage industry origination capacity that existed before the COVID-19 pandemic, has allowed us to realize higher gain-on sale margins in our production segment. We expect our gain on sale margins to decrease to historical levels as industry capacity adjusts to demand. Furthermore, Fannie Mae and Freddie Mac added a 50 basis point adverse market refinance fee applicable to most mortgage refinances that could have a negative impact on future refinances.

During the year ended December 31, 2020, the United States was significantly impacted by the ongoing effects of the COVID-19 pandemic and the effects of market and government responses to the COVID-19 pandemic. These developments have resulted in an economic recession in the United States and increased unemployment that have created financial hardships for many existing borrowers.

As part of its response to the COVID-19 pandemic, the federal government included requirements in the Coronavirus Aid, Relief, and Economic Security ("CARES") Act that we as a servicer of Agency loans provide borrowers with substantial payment forbearance. As a result of this requirement, we have seen a large increase in delinquencies in our servicing portfolio which has increased our cost to service those loans and may require us to finance substantial amounts of advances of principal and interest payments to the investors holding securities backed by these loans, as well as property taxes, insurance and other costs to protect investors' interest in the properties collateralizing the loans. As of December 31, 2020, 7.2% of loans in UPB in our predominately government-insured or guaranteed MSR portfolio were in forbearance plans and delinquent resulting in an increase in the level of servicing advances we have been required to make due to borrower delinquencies.

This development may have a negative effect on the earnings of our servicing segment before taking into account the effect of future developments on the valuation of our MSRs by, among other things, reducing servicing fee income, reducing the amount of placement fees we earn on custodial deposits related to these loans, increasing our cost

to service due to higher delinquency and default rates, as well as increased financing costs due to the need to advance funds on behalf of delinquent borrowers. We expect these losses to be offset by growth in our loan servicing portfolio and gains on the resale of early buyout loans as those borrowers reperform.

Net gains on loans held for sale at fair value

During the year ended December 31, 2020, we recognized *Net gains on loans held for sale at fair value* totaling \$2.7 billion, compared to \$725.5 million and \$249.0 million during the years ended December 31, 2019 and 2018, respectively. The increase in 2020 compared to 2019 and 2018 was primarily due to an increase in loan production volume and improved profit margins in our mortgage production business, reflecting increased demand for mortgage loans during 2020 as compared to 2019 and 2018. The increase in demand for mortgage loans during 2020 as compared to 2019 and 2018 is attributable primarily to the decrease in market interest rates that prevailed during 2020. The increase in profit margins during 2020 reflects the effects of increased loan demand on an already capacity-constrained industry and the disruptive effect of the COVID-19 pandemic on certain industry participations' ability to maintain their loan production levels.

Our net gains on loans held for sale are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
From non-affiliates:			
Cash gain (loss):			
Loans	\$ 2,025,260	\$ (190,853)	\$ (469,647)
Hedging activities	(767,588)	(175,305)	93,288
Total cash gain (loss)	1,257,672	(366,158)	(376,359)
Non-cash gain:			
Change in fair value of loans and derivative financial instruments outstanding at end of year:			
Interest rate lock commitments	540,376	87,312	(8,934)
Loans	(326,986)	(42,878)	(1,506)
Hedging derivatives	116,690	17,499	(11,766)
	330,080	61,933	(22,206)
Mortgage servicing rights and mortgage servicing liabilities resulting from loan sales	1,114,720	846,888	584,156
Provision for losses relating to representations and warranties:			
Pursuant to loan sales	(21,035)	(8,377)	(5,824)
Reduction in liability due to change in estimate	8,667	7,877	4,672
Total non-cash gain	1,432,432	908,321	560,798
Total gains on sale from non-affiliates	2,690,104	542,163	184,439
From PennyMac Mortgage Investment Trust (1)	50,681	183,365	64,583
	<u>\$ 2,740,785</u>	<u>\$ 725,528</u>	<u>\$ 249,022</u>
During the year:			
Interest rate lock commitments issued:			
Government-insured or guaranteed mortgage loans	\$ 91,922,406	\$ 62,772,725	\$ 40,193,531
Conventional mortgage loans	33,682,284	9,886,462	4,592,412
Jumbo mortgage loans	8,304	29,641	641
Home equity lines of credit	1,676	9,186	—
	<u>\$ 125,614,670</u>	<u>\$ 72,698,014</u>	<u>\$ 44,786,584</u>
At end of year:			
Loans held for sale at fair value	\$ 11,616,400	\$ 4,912,953	\$ 2,521,647
Commitments to fund and purchase loans	\$ 20,624,535	\$ 7,122,316	\$ 2,805,400

(1) Gain on sale of loans to PMT are primarily cash gains.

Our gain on sale of loans held for sale includes both cash and non-cash elements. We recognize a significant portion of our gain on sale of loans when we make a commitment to purchase, fund or modify a mortgage loan. We recognize this gain in the form of an interest rate lock commitment. We adjust our initial gain amount as the loan purchase, origination or modification process progresses until the loan is either funded or cancelled. We also receive non-cash proceeds on sale that include the fair value of MSRs and we incur liabilities for mortgage servicing liabilities (which represent the fair value of the costs we expect to incur in excess of the fees we receive for early buyout of delinquent loans (“EBO loans”) we have resold) and for the fair value of our estimate of the losses we expect to incur relating to the representation and warranties we provide in our loan sale transactions.

Non-cash elements of gain on sale of loans

The MSRs, mortgage servicing liabilities (“MSLs”), and liability for representations and warranties we recognize represent our estimate of the fair value of future benefits and costs we will realize for years in the future. These estimates represented approximately 40% of our gain on sale of loans at fair value for the year ended December 31, 2020, as compared to 117% and 234% for the years ended December 31, 2019 and 2018, respectively. These estimates change as circumstances change and changes in these estimates are recognized in income in subsequent periods. How we measure and update our measurements of MSRs and MSLs is detailed in Note 6 – *Fair value – Valuation Techniques and Inputs* to the consolidated financial statements included in this Annual Report.

Our agreements with the purchasers and insurers include representations and warranties related to the loans we sell. The representations and warranties require adherence to purchaser and insurer origination and underwriting guidelines, including but not limited to the validity of the lien securing the loan, property eligibility, borrower credit, income and asset requirements, and compliance with applicable federal, state and local law.

In the event of a breach of our representations and warranties, we may be required to either repurchase the loans with the identified defects or indemnify the purchaser or insurer. In such cases, we bear any subsequent credit loss on the loans. Our credit loss may be reduced by any recourse we have to correspondent originators that sold such loans to us and breached similar or other representations and warranties. In such event, we have the right to seek a recovery of related repurchase losses from that correspondent seller.

Our representations and warranties are generally not subject to stated limits of exposure. However, we believe that the current UPB of loans sold by us and subject to representation and warranty liability to date represents the maximum exposure to repurchases related to representations and warranties.

The level of the liability for losses under representations and warranties is difficult to estimate and requires considerable judgment. The level of loan repurchase losses is dependent on economic factors, purchaser or insurer loss mitigation strategies, and other external conditions that may change over the lives of the underlying loans. Our estimate of the liability for representations and warranties is developed by our credit administration staff and approved by our senior management credit committee which includes our senior executives and senior management in our loan production, loan servicing and credit risk management areas.

The method used to estimate our losses on representations and warranties is a function of our estimate of future defaults, loan repurchase rates, the severity of loss in the event of default, if applicable, and the probability of reimbursement by the correspondent loan seller. We establish a liability at the time loans are sold and review our liability estimate on a periodic basis.

During the years ended December 31, 2020, 2019, and 2018 we recorded provisions for losses under representations and warranties relating to current loan sales as a component of *Net gains on loans held for sale at fair value* totaling \$21.0 million, \$8.4 million, and \$5.8 million, respectively. We also recorded reductions in the liability relating to previously sold loans of \$8.7 million, \$7.9 million, and \$4.7 million, for the years ended December 31, 2020, 2019 and 2018, respectively. The reductions in the liability relating to previously sold loans resulted from those loans meeting performance criteria established by the Agencies which significantly limits the likelihood of certain repurchase or indemnification claims.

Following is a summary of mortgage loan repurchase activity and the unpaid balance of mortgage loans subject to representations and warranties:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
During the year:			
Indemnification activity:			
Loans indemnified by PFSI at beginning of year	\$ 15,366	\$ 8,899	\$ 7,579
New indemnifications	4,544	11,629	4,511
Less indemnified loans sold, repaid or refinanced	6,122	5,162	3,191
Loans indemnified by PFSI at end of year	<u>\$ 13,788</u>	<u>\$ 15,366</u>	<u>\$ 8,899</u>
Repurchase activity:			
Total loans repurchased by PFSI	\$ 58,410	\$ 18,660	\$ 26,025
Less:			
Loans repurchased by correspondent lenders	28,658	12,396	18,127
Loans repaid by borrowers or resold with defects resolved	24,810	6,735	2,138
Net loans repurchased (resolved) with losses chargeable to liability for representations and warranties	\$ 4,942	\$ (471)	\$ 5,760
Net losses charged to liability for representations and warranties	<u>\$ 1,126</u>	<u>\$ 209</u>	<u>\$ 50</u>
At end of year:			
Unpaid principal balance of loans subject to representations and warranties	\$ 210,222,447	\$ 177,611,568	
Liability for representations and warranties	\$ 32,688	\$ 21,446	

During the year ended December 31, 2020, we repurchased loans with unpaid principal balances totaling \$58.4 million and charged \$1.1 million in net incurred losses relating to repurchases against our liability for representations and warranties. If the outstanding balance of loans we purchase and sell subject to representations and warranties increases, the loans sold continue to season, economic conditions change, correspondent lenders become unwilling or unable to repurchase defective loans, or investor and insurer loss mitigation strategies are adjusted, the level of repurchase and loss activity may increase significantly.

Loan origination fees

Following is a summary of our loan origination fees:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Loan origination fee revenue	\$ 285,551	\$ 174,156	\$ 101,641
Unpaid principal balance of loans purchased and originated for sale	\$ 96,200,101	\$ 61,531,095	\$ 41,444,793

Loan origination fees increased \$111.4 million and \$72.5 million during the year ended December 31, 2020 and 2019, compared to the years ended December 31, 2019, and 2018, respectively, and the increases were primarily due to an increase in the volume of loans we produced.

Fulfillment fees from PennyMac Mortgage Investment Trust

Following is a summary of our fulfillment fees:

	Year ended December 31,		
	2020	2019	2018
		(in thousands)	
Fulfillment fee revenue	\$ 222,200	\$ 160,610	\$ 81,350
Unpaid principal balance of loans fulfilled subject to fulfillment fees	\$ 100,389,252	\$ 56,033,704	\$ 26,194,303

Fulfillment fees from PMT represent fees we collect for services we perform on behalf of PMT in connection with the acquisition, packaging and sale of loans. The fulfillment fees were calculated as a percentage of the UPB of the loans we fulfilled for PMT through June 30, 2020. Effective July 1, 2020, fulfillment fees are calculated based on the number of loans we lock and fulfill for PMT.

Fulfillment fees increased \$61.6 million and \$79.3 million during the years ended December 31, 2020 and 2019, compared to the years ended December 31, 2019 and 2018, respectively. The increases were primarily due to increased volume of loans we fulfilled for PMT, partially offset by a decrease in the fulfillment fee collected per loan during the year ended December 31, 2020 compared to the years ended December 31, 2019 and 2018, respectively.

Net loan servicing fees

Following is a summary of our net loan servicing fees:

	Year ended December 31,		
	2020	2019	2018
		(in thousands)	
Net loan servicing fees:			
Loan servicing fees:			
From non-affiliates	\$ 814,646	\$ 730,165	\$ 585,101
From PennyMac Mortgage Investment Trust	67,181	48,797	42,045
From Investment Funds	—	—	3
Other	116,464	98,564	64,133
	998,291	877,526	691,282
Change in fair value of mortgage servicing rights, mortgage servicing liabilities and excess servicing spread financing net of hedging results	(558,843)	(583,861)	(245,889)
Net loan servicing fees	\$ 439,448	\$ 293,665	\$ 445,393
Average loan servicing portfolio	\$ 393,503,691	\$ 334,169,204	\$ 269,402,670

Change in fair value of mortgage servicing rights and excess servicing spread financing net of hedging results are summarized below:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Realization of cash flows	\$ (392,152)	\$ (429,571)	\$ (280,015)
Other changes in fair value of mortgage servicing rights and mortgage servicing liabilities	(1,109,841)	(559,043)	163,671
Change in fair value of excess servicing spread	24,970	9,256	(8,500)
Hedging results	918,180	395,497	(121,045)
Total change in fair value of mortgage servicing rights, mortgage servicing liabilities and excess servicing spread financing net of hedging results	<u>\$ (558,843)</u>	<u>\$ (583,861)</u>	<u>\$ (245,889)</u>
Average balances:			
Mortgage servicing rights	\$ 2,404,621	\$ 2,764,105	\$ 2,433,758
Mortgage servicing liabilities	\$ 32,071	\$ 18,718	\$ 10,506
Excess servicing spread financing	\$ 153,768	\$ 195,461	\$ 229,607
At year end:			
Mortgage servicing rights	\$ 2,581,174	\$ 2,926,790	\$ 2,820,612
Mortgage servicing liabilities	\$ 45,324	\$ 29,140	\$ 8,681
Excess servicing spread financing	\$ 131,750	\$ 178,586	\$ 216,110

Following is a summary of our loan servicing portfolio:

	December 31, 2020	December 31, 2019
	(in thousands)	
Loans serviced		
Prime servicing:		
Owned:		
Mortgage servicing rights		
Originated	\$ 196,873,590	\$ 166,188,825
Acquired	41,537,219	59,598,279
	<u>238,410,809</u>	<u>225,787,104</u>
Mortgage servicing liabilities	2,857,492	2,758,454
Loans held for sale	<u>11,063,938</u>	<u>4,724,006</u>
	<u>252,332,239</u>	<u>233,269,564</u>
Subserviced for PMT	<u>174,360,317</u>	<u>135,288,944</u>
Total prime servicing	<u>426,692,556</u>	<u>368,558,508</u>
Special servicing subserviced for PMT	<u>58,274</u>	<u>125,724</u>
Total loans serviced	<u>\$ 426,750,830</u>	<u>\$ 368,684,232</u>

Net loan servicing fees increased \$145.8 million, during the year ended December 31, 2020 compared to the year ended December 31, 2019. The increase was primarily due to an increase of \$120.8 million in loan servicing fees resulting from an increase of 18% in our average servicing portfolio during 2020 compared to 2019.

Net loan servicing fees decreased \$151.7 million during the year ended December 31, 2019 compared to the year ended December 31, 2018. The decrease was primarily due to an increase of \$338.0 million in losses in fair value of MSR, MSLs and excess servicing spread financing, net of hedging results, compared to the year ended December 31, 2018, resulting from the effect of decreasing interest rates on the fair value of our mortgage servicing assets and liabilities. The increased losses were partially offset by an increase of \$186.2 million in loan servicing fees, resulting from an increase of 24% in our average servicing portfolio for the year ended December 31, 2019 compared to the year ended December 31, 2018.

During the year ended December 31, 2020, the prepayment expectations resulting from the decreasing interest rate environment, along with expectations of higher costs to service loans in the coming months and increased returns demanded by market participants in response to the uncertainties created by the COVID-19 pandemic, resulted in a 37% reduction in fair value (as measured by the December 31, 2019 fair value) of our investment in MSRs. This reduction in fair value was partially offset by our hedging results and change in fair value of ESS.

Many of the risks of owning MSRs, such as changing costs to service loans and changing returns demanded by MSR market participants are difficult to hedge. There can be no assurance that future hedging results will effectively offset changes in fair value of MSRs. As discussed above, we expect the ongoing effects of the COVID-19 pandemic and the requirements of the CARES Act to reduce our servicing income and to increase our servicing expenses due to the increased number of delinquent loans, and significant number of forbearances that we have granted and continue to grant, as well as the resolution of loans that we expect to ultimately default as the result of the COVID-19 pandemic.

Net Interest (Expense) Income

Net interest income decreased \$101.2 million during the year ended December 31, 2020 compared to the year ended December 31, 2019. The decrease was primarily due to:

- a decrease of \$81.2 million in placement fees we received relating to custodial funds that we manage due to decreased earning rates which reflect the lower interest rate environment; and
- an increase of \$40.8 million in interest shortfall on repayments of loans serviced for Agency securitizations, reflecting increased loan payoffs as a result of increased borrower refinancing activity due to the lower interest rates in 2020 as compared to 2019. When a borrower repays a loan, we are responsible in many cases for paying the full month's interest to the holders of the Agency securities that are backed by the loan regardless of when in the month the borrower repays the loan. The increase in refinancing activity in our MSR portfolio caused the increase in the interest shortfall; and
- an increase of \$38.6 million in interest expense on repurchase agreements due to an increase in financing to fund the growth in our loan inventory and the expiration of a master repurchase agreement in August 2019. The master repurchase agreement provided us with incentives to finance mortgage loans approved for satisfying certain consumer relief characteristics. We recorded \$14.7 million of such incentives as reductions in Interest expense during the year ended in December 31, 2019; partially offset by
- an increase of \$46.7 million in interest income on loans held for sale due to larger average inventory balances during the year ended December 31, 2020 as compared to 2019.

Net interest income increased \$4.9 million during the year ended December 31, 2019 compared to the year ended December 31, 2018. The increase was primarily due to:

- an increase of \$56.3 million in placement fees we receive relating to custodial funds that we manage, reflecting the growth of our servicing portfolio and net interest income relating to growth in our average inventory of loans held for sale, partially offset by
- a \$33.4 million decrease in the financing incentives we received from one of our lenders for financing mortgage loans approved for satisfying certain consumer relief characteristics; and
- a \$22.7 million increase in interest shortfall on repayment of loans serviced for Agency securitizations.

Management fees and Carried Interest

Management fees and Carried Interest are summarized below:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Management fees:			
PennyMac Mortgage Investment Trust:			
Base management	\$ 34,538	\$ 29,303	\$ 23,033
Performance incentive	—	7,189	1,432
	<u>\$ 34,538</u>	<u>\$ 36,492</u>	<u>\$ 24,465</u>
Net assets of PMT at end of year	\$ 2,296,859	\$ 2,450,916	\$ 1,566,132

Management fees decreased \$2.0 million during the year ended December 31, 2020, compared to the year ended December 31, 2019. The decrease was due to a decrease of \$7.2 million in incentive fees due to losses PMT incurred during the quarter ended March 31, 2020, partially offset by an increase of \$5.2 million in base management fees reflecting the increase in PMT's average shareholders' equity upon which our base management fees are based, during the year ended December 31, 2020 compared to the year ended December 31, 2019.

Management fees from PMT increased by \$12.0 million during the year ended December 31, 2019, compared to the year ended December 31, 2018, reflecting the combined effect of the performance incentive fees arising from PMT's increased profitability and the increase in PMT's average shareholders' equity upon which its management fees are based. The increase in average shareholders' equity was primarily due to the issuance of new common shares by PMT during the year ended December 31, 2019.

Change in Fair Value of Investment in and Dividends Received from PMT

The results of our holdings of common shares of PMT, which is included in *Changes in fair value of investment in, and dividends received from PMT* are summarized below:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Dividends from PennyMac Mortgage Investment Trust	\$ 114	\$ 141	\$ 140
Change in fair value of investment in PennyMac Mortgage Investment Trust	(567)	275	192
Dividends received and change in fair value	<u>\$ (453)</u>	<u>\$ 416</u>	<u>\$ 332</u>
Fair value of PennyMac Mortgage Investment Trust shares at end of year	\$ 1,105	\$ 1,672	\$ 1,397

Change in fair value of investment in and dividends received from PMT decreased \$869,000 during the year ended December 31, 2020, compared to the year ended December 31, 2019, and increased \$84,000 during the year ended December 31, 2019, compared to the year ended December 31, 2018, due to changes in the fair value of our investment in PMT. We held 75,000 common shares of PMT during each of the three years ended December 31, 2020.

Expenses

Compensation

Our compensation expense is summarized below:

	Year ended December 31,		
	2020	2019	2018
	(dollars in thousands)		
Salaries and wages	\$ 437,344	\$ 293,987	\$ 256,750
Incentive compensation	171,323	124,203	70,574
Taxes and benefits	84,797	60,497	50,695
Stock and unit-based compensation	45,105	24,771	25,251
	<u>\$ 738,569</u>	<u>\$ 503,458</u>	<u>\$ 403,270</u>
Head count:			
Average	5,313	3,709	3,335
Year end	6,632	4,215	3,460

Compensation expense increased \$235.1 million during the year ended December 31, 2020, compared to the year ended December 31, 2019. The increase was primarily due to growth in head count made to accommodate the growth in our loan production and servicing activities as well as to increases in incentive compensation resulting from performance-based incentives and higher than expected attainment of profitability targets.

Compensation expense increased \$100.2 million during the year ended December 31, 2019, compared to the year ended December 31, 2018. The increase in compensation was primarily due to increases in incentive compensation resulting from performance-based incentives in our mortgage banking business and higher than expected attainment of profitability targets along with increases in base salaries, taxes and benefits due to increased average head count resulting from the growth in our mortgage banking activities during 2019.

Servicing

Servicing expense increased \$92.2 million and \$27.6 million in the years ended December 31, 2020 and 2019 compared to the years ended December 31, 2019 and 2018, respectively. The increase in 2020 compared to 2019 was primarily the result of the increase in delinquencies we experienced due to the effects of the COVID-19 pandemic on borrower delinquencies. The increase in 2019 compared to 2018, was due to growth in our government-insured or guaranteed mortgage servicing portfolio, which includes loans that are subject to nonreimbursable servicing advance losses, and to our EBO program to purchase defaulted loans from Ginnie Mae pools. During the years ended December 31, 2020, 2019, and 2018, we purchased \$9.6 billion, \$4.4 billion and \$3.0 billion in UPB of EBO loans, respectively.

The EBO program reduces the ongoing cost of servicing defaulted mortgage loans subject to Ginnie Mae MBS when we purchase and either sell the defaulted loans or finance them with debt at interest rates below the Ginnie Mae MBS pass-through rates. While the EBO program reduces the ultimate cost of servicing such mortgage loan pools, it accelerates loss recognition when the mortgage loans are purchased. We recognize expense because purchasing the mortgage loans from their Ginnie Mae pools causes us to write off accumulated non-reimbursable interest advances, net of interest receivable from the mortgage loans' insurer or guarantor at the debenture rate of interest applicable to the respective mortgage loans to the extent the loan is immediately modified. The losses we recognize when we purchase EBO loans are anticipated and included in our valuation of the MSRs related to such loans before we repurchase the respective loans.

Technology

Technology expense increased \$44.6 million and \$7.8 million in the years ended December 31, 2020 and 2019 compared to the years ended December 31, 2019 and 2018, respectively. The increases were primarily due to growth in our loan servicing operations and continued investment in our loan production and servicing infrastructure and \$13.1 million of impairment of capitalized software recorded during the year ended December 31, 2020.

Occupancy and equipment

Occupancy and equipment expenses increased \$4.4 million and \$1.8 million during the years ended December 31, 2020 and 2019, compared to the years ended December 31, 2019 and 2018, respectively. The increases are primarily attributable to expansion of our facilities to accommodate our growth.

Provision for Income Taxes

For the years ended December 31, 2020, 2019 and 2018, our effective tax rates were 26.5%, 25.8%, and 8.7%, respectively. The difference in the effective income tax rate between the year ended December 31, 2020 and the year ended December 31, 2019 results from the lesser impact of favorable tax adjustments for total permanent differences in the year ended December 31, 2020. When compared to the same period in 2019, the tax adjustment for permanent differences was reduced by \$3.7 million while pretax income increased by \$1.7 billion, thereby diluting the impact of the tax adjustment on the effective income tax rate.

The large difference between our effective tax rate and the statutory rate for the year ended December 31, 2018 was primarily due to the allocation of earnings to the noncontrolling interest unitholders who were partners in PennyMac and therefore responsible for the income taxes relating the income attributable to them. Pursuant to the Reorganization, the noncontrolling interest unitholders converted their ownership units into our shares and as a result, we were allocated starting on that date and will in the future be allocated 100% of PNMAC earnings that will be subject to corporate federal and state statutory tax rates, which has in turn increased our effective income tax rate.

The CARES Act, passed in March 2020, introduced a number of tax law changes which are generally taxpayer favorable. In December 2020 the Taxpayer Certainty and Disaster Tax Relief Act was signed into law. No material changes in our effective income tax rates resulted from the either Act.

Balance Sheet Analysis

Following is a summary of key balance sheet items as of the dates presented:

	December 31, 2020	December 31, 2019
	(in thousands)	
ASSETS		
Cash and short-term investments	\$ 547,933	\$ 262,902
Loans held for sale at fair value	11,616,400	4,912,953
Derivative assets	711,238	159,686
Servicing advances, net	579,528	331,169
Investments in and advances to affiliates	168,972	157,343
Mortgage servicing rights	2,581,174	2,926,790
Loans eligible for repurchase	14,625,447	1,046,527
Other	767,103	406,647
Total assets	<u>\$ 31,597,795</u>	<u>\$ 10,204,017</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Short-term debt	\$ 10,176,274	\$ 4,639,001
Long-term debt	2,085,274	1,493,466
Liability for loans eligible for repurchase	14,625,447	1,046,527
Income taxes payable	622,700	504,569
Other	698,712	458,947
Total liabilities	28,208,407	8,142,510
Stockholders' equity	3,389,388	2,061,507
Total liabilities and stockholders' equity	<u>\$ 31,597,795</u>	<u>\$ 10,204,017</u>

Total assets increased \$21.4 billion from \$10.2 billion at December 31, 2019 to \$31.6 billion at December 31, 2020. The increase was primarily due to an increase of \$13.6 billion in loans eligible for repurchase, \$6.7 billion in loans held for sale at fair value, \$551.6 million in derivative assets, \$285.0 million in cash and short-term investments, \$360.5 million in other assets and \$248.4 million in servicing advances, partially offset by a decrease of \$345.6 million in MSR. The increases in loans eligible for repurchase and servicing advances reflect an increase in delinquent loans as a result of the COVID-19 pandemic and the CARES Act forbearance requirements. The decrease in MSR reflects the \$1.1 billion in fair value losses discussed above, partially offset by additions resulting from our loan production activities. The increase in derivative assets primarily reflects growth in the fair value of our IRLCs as the result of the growth in our commitments to fund and purchase loans as well as the increased margins inherent in such commitments at December 31, 2020 as compared to December 31, 2019. We increased our holding of cash and short-term investments during the year ended December 31, 2020 as a means of enhancing our liquidity during the COVID-19 pandemic.

Total liabilities increased by \$20.1 billion from \$8.1 billion as of December 31, 2019 to \$28.2 billion as of December 31, 2020. The increase was primarily attributable to an increase of \$13.6 billion in liability for loans eligible for repurchase and \$6.1 billion in borrowings required to finance a larger inventory of loans held for sale.

Cash Flows

Our cash flows for the three years ended December 31, 2020 are summarized below:

	Year ended December 31,		
	2020	2019	2018
		(in thousands)	
Operating	\$ (6,198,938)	\$ (2,245,123)	\$ 572,396
Investing	783,034	148,782	(322,611)
Financing	5,760,107	2,128,995	(132,034)
Net increase in cash and restricted cash	<u>\$ 344,203</u>	<u>\$ 32,654</u>	<u>\$ 117,751</u>

Operating activities

Net cash (used in) provided by operating activities totaled \$(6.2) billion, \$(2.2) billion, and \$572.4 million during the years ended December 31, 2020, 2019, and 2018 respectively. Our cash flows from operating activities are primarily influenced by changes in the levels of our inventory of loans held for sale as shown below:

	Year ended December 31,		
	2020	2019	2018
		(in thousands)	
Cash flows from:			
Loans held for sale	\$ (5,326,837)	\$ (2,487,105)	\$ 338,838
Other operating (uses) sources	(872,101)	241,982	233,558
	<u>\$ (6,198,938)</u>	<u>\$ (2,245,123)</u>	<u>\$ 572,396</u>

The decrease in cash flows from other operating activities during the year ended December 31, 2020 compared to the years ended December 31, 2019 and 2018 was primarily due to an increase in deposits securing certain of our borrowings and an increase in servicing advances caused by pandemic-induced borrower delinquencies.

Investing activities

Net cash provided by investing activities was \$783.0 million during the year ended December 2020, primarily comprised of \$913.1 million in net settlement of derivative financial instruments used to hedge our investment in MSRs, partially offset by \$131.8 million increase in margin deposits.

Net cash provided by investing activities was \$148.8 million during the year ended December 2019, primarily comprised of \$366.1 million in net settlement of derivative financial instruments used to hedge our investment in MSRs, partially offset by \$227.4 million used in purchase of MSRs.

Net cash used in investing activities was \$322.6 million during the year ended December 31, 2018 primarily comprised of cash used in purchase of MSRs and net settlements of derivative financial instruments used to hedge our investment in MSRs.

Financing activities

Net cash provided by financing activities totaled \$5.8 billion during the year ended December 31, 2020, primarily due to an increase of \$6.1 billion in borrowings to finance the growth in our inventory of loans held for sale, partially offset by a \$337.5 million of repurchase of common stock and \$30.9 million of dividends paid to our common stock holders.

Net cash provided by financing activities totaled \$2.1 billion during the year ended December 31, 2019 which was primarily to finance the growth in our inventory of loans held for sale and our investments in MSRs.

Net cash used in financing activities totaled \$132.0 million during the year ended December 31, 2018 which was primarily due to net repurchases of assets sold under agreements to repurchase and mortgage loan participation purchase and sale agreements of \$440.9 million, reflecting a reduction in our financing of loans held for sale, and repayments of excess servicing spread financing of \$46.8 million, partially offset by net proceeds from issuance of notes payable secured by of \$400 million.

Liquidity and Capital Resources

Our liquidity reflects our ability to meet our current obligations (including our operating expenses and, when applicable, the retirement of, and margin calls relating to, our debt, and margin calls relating to hedges on our commitments to purchase or originate mortgage loans and on our MSR investments), fund new originations and purchases, and make investments as we identify them. We expect our primary sources of liquidity to be through cash flows from business activities, proceeds from bank borrowings, proceeds from and issuance of ESS and/or equity or debt offerings. We believe that our liquidity is sufficient to meet our current cash requirements.

The effect of the COVID-19 pandemic on our operations, liquidity and capital resources remains uncertain and difficult to predict. For further discussion of the potential impacts of the COVID-19 pandemic please also see “Risk Factors” in Part I, Item 1A.

The CARES Act allows borrowers with federally-backed loans to request temporary payment forbearance in response to the increased borrower hardships resulting from the COVID-19 pandemic and may require us as the servicer to advance principal and interest, property taxes, insurance premiums and other expenses to the investors for up to four months on Fannie Mae and Freddie Mac loans and longer on Ginnie Mae and other government agency backed loans. In April 2020, the Company entered into a new Ginnie Mae servicing advance financing transaction allowing the Company to borrow \$600 million against Ginnie Mae MSRs and servicing advances. The Ginnie Mae servicing advances eligible for financing include advances made to support regularly scheduled monthly principal and interest to mortgage-backed securities holders, taxes, homeowners insurance and escrowed items and other costs related to servicing delinquent loans. We are also in ongoing discussions with our lending partners to align our servicing advance assets and financing capacity, and to further diversify our financing alternatives.

The COVID-19 pandemic has significantly increased the number of loans that are delinquent in our Ginnie Mae MSR portfolio. The Ginnie Mae guidelines provides us with the option to purchase loans that are at least three months delinquent out of the underlying Ginnie Mae securities as an alternative to continuing to advance principal and interest payments to the holders of the Ginnie Mae securities. We refer to such loans as “early buyout” or EBO loans.

During the year ended December 31, 2020, we repurchased \$9.6 billion in UPB of EBO loans from our Ginnie Mae MSR portfolio. Our objective is to work with the borrowers to cure the loan delinquency through either borrower reperformance or modification of the loans’ terms. When curing the delinquency is not feasible, we work to settle the loan and collect our claims from the applicable insurer or guarantor. When we are able to cure the delinquency, we are able to re-deliver the cured loan into another Ginnie Mae guaranteed security. Depending on the method used to cure a borrower delinquency, the Ginnie Mae program may require at least a six month period of timely borrower payments before we are able to re-deliver the loan into another Ginnie Mae guaranteed security. Therefore, regardless of whether we cure or settle the repurchased loan, our investment in the EBO loans may require a substantial holding period.

Our current borrowing strategy is to finance our assets where we believe such borrowing is prudent, appropriate and available. Our borrowing activities are in the form of sales of assets under agreements to repurchase, sales of mortgage loan participation purchase and sale certificates, ESS financing, notes payable, a capital lease and unsecured senior notes. A significant amount of our borrowings have short-term maturities and provide for terms of approximately one year. Because a significant portion of our current debt facilities consists of short-term borrowings, we expect to renew these facilities in advance of maturity in order to ensure our ongoing liquidity and access to capital or otherwise allow ourselves sufficient time to replace any necessary financing. During September and October 2020, we issued a total of \$650 million long term unsecured senior notes that mature on October 15, 2025. We used the proceeds from the unsecured senior notes to repay some of our existing short-term borrowings.

Our repurchase agreements represent the sales of assets together with agreements for us to buy back the assets at a later date. The table below presents the average outstanding, maximum and ending balances for each of the three years ended December 31, 2020, 2019 and 2018:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Average balance	\$ 3,348,928	\$ 2,185,830	\$ 1,626,729
Maximum daily balance	\$ 9,663,995	\$ 4,141,680	\$ 2,380,121
Balance at year end	\$ 9,663,995	\$ 4,141,680	\$ 1,935,200

The differences between the average and maximum daily balances on our repurchase agreements reflect the fluctuations throughout the month of our inventory as we fund and pool mortgage loans for sale in guaranteed mortgage securitizations and the growth in our EBO inventory through the year.

Our secured financing agreements at PLS require us to comply with various financial covenants. The most significant financial covenants currently include the following:

- positive net income during one of the two most recent calendar quarters;
- a minimum in unrestricted cash and cash equivalents of \$40 million;
- a minimum tangible net worth of \$1.25 billion;
- a maximum ratio of total liabilities to tangible net worth of 10:1; and
- at least one other warehouse or repurchase facility that finances amounts and assets that are similar to those being financed under certain of our existing secured financing agreements.

With respect to servicing performed for PMT, PLS is also subject to certain covenants under PMT's debt agreements. Covenants in PMT's debt agreements are equally, or sometimes less, restrictive than the covenants described above.

In addition to the covenants noted above, the indenture governing our unsecured senior notes contains covenants that limit our and our restricted subsidiaries' ability to engage in specified types of transactions. These covenants limit our and our restricted subsidiaries' ability to, among other things:

- pay dividends or distributions, redeem or repurchase equity, prepay subordinated debt and make certain loans or investments;
- incur, assume or guarantee additional debt or issue preferred stock;
- incur liens on assets;
- merge or consolidate with another person or sell all or substantially all of our assets to another person;

- transfer, sell or otherwise dispose of certain assets including capital stock of subsidiaries;
- enter into transactions with affiliates; and
- allow to exist certain restrictions on the ability of our non-guarantor restricted subsidiaries to pay dividends or make other payments to us.

Although these financial covenants limit the amount of indebtedness that we may incur and affect our liquidity through minimum cash reserve requirements, we believe that these covenants currently provide us with sufficient flexibility to successfully operate our business and obtain the financing necessary to achieve that purpose.

Our debt financing agreements also contain margin call provisions that, upon notice from the applicable lender at its option, require us to transfer cash or, in some instances, additional assets in an amount sufficient to eliminate any margin deficit. A margin deficit will generally result from any decline in the market value (as determined by the applicable lender) of the assets subject to the related financing agreement. Upon notice from the applicable lender, we will generally be required to satisfy the margin call on the day of such notice or within one business day thereafter, depending on the timing of the notice.

We are also subject to liquidity and net worth requirements established by FHFA for Agency seller/servicers and Ginnie Mae for single-family issuers. FHFA and Ginnie Mae have established minimum liquidity requirements and revised their net worth requirements for their approved non-depository single-family sellers/servicers or issuers as summarized below:

- Effective June 30, 2020, FHFA liquidity requirement is equal to 0.035% (3.5 basis points) of total Agency servicing UPB plus an incremental 200 basis points of the amount by which total nonperforming Agency servicing UPB (reduced by 70% of the UPB of nonperforming Agency loans that are in pandemic-related payment forbearance and were current when they entered such forbearance) exceeds 6% of the applicable Agency servicing UPB; allowable assets to satisfy liquidity requirement include cash and cash equivalents (unrestricted), certain investment-grade securities that are available for sale or held for trading including Agency mortgage-backed securities, obligations of Fannie Mae or Freddie Mac, and U.S. Treasury obligations, and unused and available portions of committed servicing advance lines;
- FHFA net worth requirement is a minimum net worth of \$2.5 million plus 0.25% (25 basis points) of UPB for total 1-4 unit residential mortgage loans serviced and a tangible net worth/total assets ratio greater than or equal to 6%;
- Ginnie Mae single-family issuer minimum liquidity requirement is equal to the greater of \$1.0 million or 0.10% (10 basis points) of the issuer's outstanding Ginnie Mae single-family securities, which must be met with cash and cash equivalents; and
- Ginnie Mae net worth requirement is equal to \$2.5 million plus 0.35% (35 basis points) of the issuer's outstanding Ginnie Mae single-family obligations.

On January 31, 2020, FHFA proposed changes to the eligibility requirements, which would increase the tangible net worth requirement to \$2.5 million plus 35 basis points of the UPB of loans serviced for Ginnie Mae and 25 basis points of the UPB of all other 1-4 unit loans serviced, and increase the liquidity requirement to 4 basis points of the aggregate UPB serviced for Fannie Mae and Freddie Mac and 10 basis points of the UPB serviced for Ginnie Mae plus 300 basis points of total nonperforming Agency servicing UPB (including nonperforming Agency loans that are in payment forbearance) in excess of 4% of total Agency servicing UPB. On June 15, 2020, FHFA announced that it will be re-proposing changes to these requirements.

We believe that we are currently in compliance with the applicable Agency requirements.

We have purchased portfolios of MSRs and have financed them in part through the sale to PMT of the right to receive ESS. The recorded amount of the ESS is its current fair value.

On February 4, 2021, our Board of Directors increased our common stock repurchase program from \$500 million to \$1 billion. Share repurchases may be effected through open market purchases or privately negotiated transactions in accordance with applicable rules and regulations. The stock repurchase program does not have an expiration date and the authorization does not obligate us to acquire any particular amount of common stock. From inception through December 31, 2020, we have repurchased \$352.4 million of shares under our stock repurchase program.

We continue to explore a variety of means of financing our continued growth, including debt financing through bank warehouse lines of credit, bank loans, repurchase agreements, securitization transactions and corporate debt. However, there can be no assurance as to how much additional financing capacity such efforts will produce, what form the financing will take or whether such efforts will be successful.

Off-Balance Sheet Arrangements

As of December 31, 2020, we have not entered into any off-balance sheet arrangements or guarantees.

Debt Obligations

As described further above in “Liquidity and Capital Resources,” we currently finance certain of our assets through borrowings with major financial institution counterparties in the form of sales of assets under agreements to repurchase, mortgage loan participation purchase and sale agreements, notes payable, ESS and a capital lease. The borrower under each of these facilities is PLS or its subsidiary Issuer Trust with the exception of the unsecured senior notes and the capital lease, where the borrower is PFSI and PennyMac, respectively. All PLS obligations as previously noted are guaranteed by PennyMac.

Under the terms of these agreements, PLS is required to comply with certain financial covenants, as described further above in “Liquidity and Capital Resources,” and various non-financial covenants customary for transactions of this nature. As of December 31, 2020, we believe we were in compliance in all material respects with these covenants.

The agreements also contain margin call provisions that, upon notice from the applicable lender, require us to transfer cash or, in some instances, additional assets in an amount sufficient to eliminate any margin deficit. Upon notice from the applicable lender, we will generally be required to satisfy the margin call on the day of such notice or within one business day thereafter, depending on the timing of the notice.

In addition, the agreements contain events of default (subject to certain materiality thresholds and grace periods), including payment defaults, breaches of covenants and/or certain representations and warranties, cross-defaults, guarantor defaults, servicer termination events and defaults, material adverse changes, bankruptcy or insolvency proceedings and other events of default customary for these types of transactions. The remedies for such events of default are also customary for these types of transactions and include the acceleration of the principal amount outstanding under the agreements and the liquidation by our lenders of the mortgage loans or other collateral then subject to the agreements.

The borrowings have maturities as follows:

Lender	Outstanding indebtedness (1)	Total facility size (2)	Committed facility (2)	Maturity date (2)
(dollar amounts in thousands)				
Assets sold under agreements to repurchase				
Credit Suisse First Boston Mortgage Capital LLC (3)	\$ 3,893,149	\$ 3,950,000	\$ 650,000	April 23, 2021
Credit Suisse First Boston Mortgage Capital LLC (3)	\$ 50,000	\$ 50,000	\$ 50,000	April 23, 2021
JPMorgan Chase Bank, N.A.	\$ 1,739,009	\$ 2,000,000	\$ —	September 30, 2022
JPMorgan Chase Bank, N.A.	\$ 1,013,270	\$ 1,250,000	\$ 50,000	April 7, 2021
Citibank, N.A.	\$ 505,625	\$ 1,000,000	\$ 650,000	August 3, 2021
Bank of America, N.A.	\$ 626,550	\$ 800,000	\$ 500,000	March 11, 2021
Barclays Bank PLC	\$ 596,729	\$ 750,000	\$ 375,000	November 3, 2022
Royal Bank of Canada	\$ 406,348	\$ 1,000,000	\$ 500,000	December 14, 2021
BNP Paribas	\$ 336,545	\$ 375,000	\$ 200,000	July 30, 2021
Morgan Stanley Bank, N.A.	\$ 331,546	\$ 600,000	\$ 300,000	November 2, 2022
Wells Fargo Bank, N.A.	\$ 165,224	\$ 175,000	\$ 175,000	October 6, 2022
Goldman Sachs Bank USA	\$ —	\$ 250,000	\$ 125,000	December 23, 2022
Mortgage loan participation purchase and sale agreements				
Bank of America, N.A.	\$ 521,477	\$ 550,000	\$ —	March 11, 2021
Notes payable				
GMSR 2018-GT1 Term Note	\$ 650,000	\$ 650,000		February 25, 2023
GMSR 2018-GT2 Term Note	\$ 650,000	\$ 650,000		August 25, 2023
Unsecured senior notes	\$ 650,000	\$ 650,000		October 15, 2025
Credit Suisse AG (3)	\$ —	\$ —	\$ —	April 23, 2021
Obligations under capital lease				
Banc of America Leasing and Capital LLC	\$ 11,864	\$ 25,000	\$ —	June 13, 2022

(1) Outstanding indebtedness as of December 31, 2020.

(2) Total facility size, committed facility and maturity date include contractual changes through the date of this Report.

(3) The borrowing of \$50 million with Credit Suisse First Boston Mortgage Capital LLC is in the form of a sale of a variable funding note under an agreement to repurchase up to a maximum of \$600 million, less any amount utilized under the Credit Suisse AG note payable, an agreement to repurchase relating to the financing of Fannie Mae MSRs and an agreement to repurchase relating to the financing of GNMA servicing advances.

The amount at risk (the fair value of the assets pledged plus the related margin deposit, less the amount advanced by the counterparty and accrued interest) relating to our assets sold under agreements to repurchase is summarized by counterparty below as of December 31, 2020:

Counterparty	Amount at risk (in thousands)	Weighted average maturity of advances under repurchase agreement	Facility maturity
Credit Suisse First Boston Mortgage Capital LLC (1)	\$ 1,484,391	April 23, 2021	April 23, 2021
Credit Suisse First Boston Mortgage Capital LLC	\$ 484,937	February 3, 2021	April 23, 2021
Bank of America, N.A.	\$ 334,772	January 31, 2021	March 11, 2021
JP Morgan Chase Bank, N.A.	\$ 136,523	June 4, 2021	September 30, 2022
JP Morgan Chase Bank, N.A.	\$ 117,491	February 28, 2021	April 7, 2021
Barclays Bank PLC	\$ 76,062	March 21, 2021	November 3, 2022
Royal Bank of Canada	\$ 41,107	April 17, 2021	December 14, 2021
Citibank, N.A.	\$ 35,370	March 17, 2021	August 3, 2021
Morgan Stanley Bank, N.A.	\$ 27,808	March 17, 2021	November 2, 2022
BNP Paribas	\$ 26,136	March 13, 2021	July 30, 2021
Wells Fargo Bank, N.A.	\$ 13,474	March 19, 2021	October 6, 2022

(1) The calculation of the amount at risk includes the VFN and the 2018 Term Notes because beneficial interests in the Ginnie Mae MSRs and servicing advances are pledged to the Issuer Trust and together serve as the collateral backing the VFN and 2018 Term Notes described in *Notes payable secured by mortgage servicing assets* below. The VFN financing is included in *Assets sold under agreements to repurchase* and the 2018 Term Notes are included in *Notes payable secured by mortgage servicing assets* on the Company's consolidated balance sheets.

All debt financing arrangements that matured between December 31, 2020 and the date of this Report have been renewed or extended and are described in Note 13—*Borrowings* to the accompanying consolidated financial statements.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Market risk is the exposure to loss resulting from changes in interest rates, foreign currency exchange rates, commodity prices, equity prices, real estate values and other market-based risks. The primary market risks that we are exposed to are fair value risk, interest rate and prepayment risk.

Fair Value Risk

Our IRLCs, mortgage loans held for sale, MSRs, MSLs and ESS financing are reported at their fair values. The fair value of these assets fluctuates primarily due to changes in interest rates. The fair value risk we face is primarily attributable to interest rate risk and prepayment risk.

Interest Rate Risk

Interest rate risk is highly sensitive to many factors, including governmental monetary and tax policies, domestic and international economic and political considerations, and other factors beyond our control. Changes in interest rates affect both the fair value of, and interest income we earn from, our mortgage-related investments and our derivative financial instruments. This effect is most pronounced with fixed-rate mortgage assets.

In general, rising interest rates negatively affect the fair value of our IRLCs, inventory of mortgage loans held for sale and ESS financing and positively affect the fair value of our MSR. Changes in interest rates significantly influence the prepayment speeds of the loans underlying our investments in MSR and ESS, which can have a significant effect on their fair values. Changes in interest rate are most prominently reflected in the prepayment speeds of the loans underlying our investments in MSR and ESS and the discount rate used in their valuation.

Our operating results will depend, in part, on differences between the income from our investments and our financing costs. Presently our debt financing is based on a floating rate of interest calculated on a fixed spread over the relevant index, as determined by the particular financing arrangement.

Prepayment Risk

To the extent that the actual prepayment rate on the mortgage loans underlying our MSR differs from what we projected when we initially recognized these assets and liabilities when we measure fair value as of the end of each reporting period, the carrying value of these assets and liabilities will be affected. In general, a decrease in the principal balances of the mortgage loans underlying our MSR or an increase in prepayment expectations will decrease our estimates of the fair value of the MSR, thereby reducing net servicing income, partially offset by the beneficial effect on net servicing income of a corresponding reduction in the fair value of our MSL and ESS.

Risk Management Activities

We engage in risk management activities primarily in an effort to mitigate the effect of changes in interest rates on the fair value of our assets. To manage this price risk, we use derivative financial instruments acquired with the intention of moderating the risk that changes in market interest rates will result in unfavorable changes in the fair value of our assets, primarily on our MSR investments as well as IRLCs and our inventory of loans held for sale. Our objective is to minimize our hedging expense and maximize our loss coverage based on a given hedge expense target. We do not use derivative financial instruments other than IRLCs and repurchase agreement derivatives (both of which arise from our operations) for purposes other than in support of our risk management activities.

Our strategies are reviewed daily within a disciplined risk management framework. We use a variety of interest rate and spread shifts and scenarios while defining target limits for market value and liquidity loss in those scenarios. With respect to our IRLCs and inventory of loans held for sale, we use MBS forward sale contracts to lock in the price at which we will sell the mortgage loans or resulting MBS, and further use MBS put options to mitigate the risk of our IRLCs not closing at the rate we expect. With respect to our MSR, we seek to mitigate mortgage-based loss exposure utilizing MBS forward purchase and sale contracts, address exposures to smaller interest rate shifts with Treasury and interest rate swap futures, and use options and swaptions to achieve target coverage levels for larger interest rate shocks.

Fair Value Sensitivities

The following sensitivity analyses are limited in that they were performed at a particular point in time; only contemplate the movements in the indicated variables; do not incorporate changes to other variables; are subject to the accuracy of various models and inputs used; and do not incorporate other factors that would affect our overall financial performance in such scenarios, including operational adjustments made by management to account for changing circumstances. For these reasons, the following estimates should not be viewed as earnings forecasts.

Mortgage Servicing Rights

The following tables summarize the estimated change in fair value of MSR as of December 31, 2020, given several shifts in pricing spreads, prepayment speed and annual per loan cost of servicing:

Change in fair value attributable to shift in:	-20%	-10%	-5%	+5%	+10%	+20%
	(in thousands)					
Pricing spread	\$ 205,305	\$ 98,449	\$ 48,232	\$ (46,356)	\$ (90,936)	\$ (175,137)
Prepayment speed	\$ 297,863	\$ 142,208	\$ 69,521	\$ (66,536)	\$ (130,253)	\$ (249,843)
Annual per-loan cost of servicing	\$ 101,929	\$ 50,964	\$ 25,482	\$ (25,482)	\$ (50,964)	\$ (101,929)

Excess Servicing Spread Financing

The following tables summarize the estimated change in fair value of our ESS accounted for using the fair value method as of December 31, 2020, given several shifts in pricing spreads and prepayment speed (decrease in the liabilities' fair values increases net income):

Change in fair value attributable to shift in:	-20%	-10%	-5%	+5%	+10%	+20%
	(dollar amounts in thousands)					
Pricing spread	\$ 5,766	\$ 2,824	\$ 1,397	\$ (1,369)	\$ (2,711)	\$ (5,316)
Prepayment speed	\$ 13,977	\$ 6,701	\$ 3,282	\$ (3,154)	\$ (6,185)	\$ (11,907)

Item 8. Financial Statements and Supplementary Data

The information called for by this Item 8 is hereby incorporated by reference from our Financial Statements and Auditors' Report in Part IV of this Report.

Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A. Controls and Procedures

Disclosure Controls and Procedures

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in our reports filed under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosures. However, no matter how well a control system is designed and operated, it can provide only reasonable, not absolute, assurance that it will detect or uncover failures within the Company to disclose material information otherwise required to be set forth in our periodic reports.

Our management has conducted an evaluation, with the participation of our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our disclosure controls and procedures as of the end of the period covered by this Report as required by paragraph (b) of Rule 13a-15 under the Exchange Act. Based on our evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that our disclosure controls and procedures were effective, as of the end of the period covered by this Report, to provide reasonable assurance that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the applicable rules and forms, and that it is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Management's Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Exchange Act Rule 13a-15(f). Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate. Management assessed the effectiveness of its internal control over financial reporting based on the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in *Internal Control—Integrated Framework (2013)*. Based on those criteria, management concluded that our internal control over financial reporting was effective as of December 31, 2020.

The effectiveness of our internal control over financial reporting as of December 31, 2020 has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report which appears herein.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of
PennyMac Financial Services, Inc.

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of PennyMac Financial Services, Inc. and subsidiaries (“the Company”) as of December 31, 2020, based on criteria established in *Internal Control—Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2020, based on criteria established in *Internal Control—Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2020, of the Company and our report dated February 25, 2021, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company’s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management’s Annual Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ **DELOITTE & TOUCHE LLP**
Los Angeles, California
February 25, 2021

Changes in Internal Control over Financial Reporting

There have been no changes in internal control over financial reporting during the quarter ended December 31, 2020, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Item 9B. Other Information

None.

PART III

Item 10. *Directors, Executive Officers and Corporate Governance*

The information required by this Item 10 is hereby incorporated by reference from our definitive proxy statement, or will be contained in an amendment to this Report, in either case to be filed by April 30, 2021, which is within 120 days after the end of fiscal year 2020.

Item 11. *Executive Compensation*

The information required by this Item 11 is hereby incorporated by reference from our definitive proxy statement, or will be contained in an amendment to this Report, in either case to be filed by April 30, 2021, which is within 120 days after the end of fiscal year 2020.

Item 12. *Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters*

Equity Compensation Plan Information

We have adopted an equity incentive plan, the 2013 Equity Incentive Plan, which provides for the grant of incentive stock option and nonstatutory stock options, stock appreciation rights, restricted stock and stock unit awards, performance units, stock grants and qualified performance-based awards, which we collectively refer to as “awards.” Directors, officers and other employees of our Company and our subsidiaries, as well as others performing consulting or advisory services for us, are eligible for grants under the 2013 Equity Incentive Plan. The plan administrator of the equity incentive plan is the compensation committee of the board of directors. The board of directors itself may also exercise any of the powers and responsibilities under the 2013 Equity Incentive Plan. Subject to the terms of the 2013 Equity Incentive Plan, the plan administrator will select the recipients of awards and determine, among other things, the:

- number of shares of common stock covered by the awards and the dates upon which such awards become exercisable or any restrictions lapse, as applicable;
- type of award and the exercise or purchase price and method of payment for each such award;
- performance measures, if applicable, required to be satisfied prior to vesting;
- vesting period for awards, risks of forfeiture and any potential acceleration of vesting or lapses in risks of forfeiture; and
- duration of awards.

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The following table provides information as of December 31, 2020 concerning our shares of common stock authorized for issuance under our equity incentive plan.

	(a)	(b)	(c)
Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted average exercise price of outstanding options, warrants and rights (1)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (2)
Equity compensation plans approved by security holders (3)	6,209,711	\$ 25.78	4,204,005
Equity compensation plans not approved by security holders (4)	—	—	—
Total	6,209,711	\$ 25.78	4,204,005

- (1) The weighted average exercise price set forth in this column relates only to 4,040,120 shares of stock options outstanding under our 2013 Equity Incentive Plan. The remaining securities included in column (a) of this table are performance and time-based restricted stock units, for which no exercise price applies.
- (2) This number includes a general pool of 4,202,005 shares of common stock authorized for future awards (excluding securities reflected in column (a)). This general pool initially consisted of 3,906,433 shares of common stock authorized under the 2013 Equity Incentive Plan for future awards, and has been, and will continue to be, increased pursuant to the terms of the 2013 Equity Incentive Plan on January 1st of each calendar year by an amount equal to the lesser of (i) 1.75% of our outstanding common stock on a fully diluted basis as of the end of our immediately preceding fiscal year, (ii) 1,322,024 shares, and (iii) any lower amount determined by our board of directors. The annual increase to this general pool on January 1, 2020 pursuant to the foregoing formula was 1,322,024.
- (3) Represents our 2013 Equity Incentive Plan.
- (4) We do not have any equity plans that have not been approved by our stockholders.

The other information required by this Item 12 is hereby incorporated by reference from our definitive proxy statement, or will be contained in an amendment to this Report, in either case to be filed by April 30, 2021, which is within 120 days after the end of fiscal year 2020.

Item 13. *Certain Relationships and Related Transactions, and Director Independence*

The information required by this Item 13 is hereby incorporated by reference from our definitive proxy statement, or will be contained in an amendment to this Report, in either case to be filed by April 30, 2021, which is within 120 days after the end of fiscal year 2020.

Item 14. *Principal Accounting Fees and Services*

The information required by this Item 14 is hereby incorporated by reference from our definitive proxy statement, or will be contained in an amendment to this Report, in either case to be filed April 30, 2021, which is within 120 days after the end of fiscal year 2020.

PART IV

Item 15. Exhibits and Financial Statement Schedules

Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
2.1	Contribution Agreement and Plan of Merger, dated as of August 2, 2018, by and among PennyMac Financial Services, Inc., New PennyMac Financial Services, Inc., New PennyMac Merger Sub, LLC, Private National Mortgage Acceptance Company, LLC, and the Contributors.	8-K12B	November 1, 2018
3.1	Amended and Restated Certificate of Incorporation of New PennyMac Financial Services, Inc.	8-K12B	November 1, 2018
3.1.1	Certificate of Amendment to Amended and Restated Certificate of Incorporation of New PennyMac Financial Services, Inc.	8-K12B	November 1, 2018
3.2	Amended and Restated Bylaws of New PennyMac Financial Services, Inc.	8-K12B	November 1, 2018
3.2.1	Amendment to Amended and Restated Bylaws of PennyMac Financial Services, Inc. (formerly known as New PennyMac Financial Services, Inc.).	10-Q	November 4, 2019
4.1	Description of Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934.	*	
4.2	Indenture, dated as of September 29, 2020, among PennyMac Financial Services, Inc., the guarantors party thereto and U.S. Bank, National Association, as trustee, relating to the 5.375% Senior Notes due 2025.	8-K	September 29, 2020
4.3	Form of Global Note for 5.375% Senior Notes due 2025 (Included in Exhibit 4.2).	8-K	September 29, 2020
4.4	First Supplemental Indenture, dated as of October 19, 2020, among PennyMac Financial Services, Inc., the guarantors party thereto and U.S. Bank, National Association, as trustee, relating to the 5.375% Senior Notes due 2025.	10-Q	November 6, 2020
4.5	Indenture, dated as of February 11, 2021, among PennyMac Financial Services, Inc., the guarantors party thereto and U.S. Bank, National Association, as trustee, relating to the 4.25% Senior Notes due 2029.	8-K	February 11, 2021
4.6	Form of Global Note for 4.25% Senior Notes due 2029 (Included in Exhibit 4.5).	8-K	February 11, 2021

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Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
10.1	Fifth Amended and Restated Limited Liability Company Agreement of Private National Mortgage Acceptance Company, LLC, dated as of November 1, 2018.	8-K12B	November 1, 2018
10.2	Tax Receivable Agreement, dated as of May 8, 2013, between PennyMac Financial Services, Inc., Private National Mortgage Acceptance Company, LLC and each of the Members.	8-K	May 14, 2013
10.3	Amended and Restated Registration Rights Agreement, dated as of November 1, 2018, among PennyMac Financial Services, Inc., New PennyMac Financial Services, Inc. and the Holders.	8-K12B	November 1, 2018
10.4	Second Amended and Restated Stockholder Agreement, dated February 12, 2020, by and among PennyMac Financial Services, Inc. (formerly known as New PennyMac Financial Services, Inc.) and BlackRock Mortgage Ventures, LLC.	8-K	February 13, 2020
10.5	Amended and Restated Stockholder Agreement, dated as of November 1, 2018, among PennyMac Financial Services, Inc., New PennyMac Financial Services, Inc. and HC Partners LLC.	8-K12B	November 1, 2018
10.6†	Employment Agreement, dated December 28, 2018, among Stanford L. Kurland, Private National Mortgage Acceptance Company, LLC and PennyMac Financial Services, Inc.	8-K	December 31, 2018
10.7†	Employment Agreement, dated December 28, 2018, among David A. Spector, Private National Mortgage Acceptance Company, LLC and PennyMac Financial Services, Inc.	8-K	December 31, 2018
10.8†	Employment Agreement, dated December 28, 2018, among Doug Jones, Private National Mortgage Acceptance Company, LLC and PennyMac Financial Services, Inc.	8-K	December 31, 2018
10.9†	Form of PennyMac Financial Services, Inc. Indemnification Agreement	*	
10.10†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan.	8-K	May 14, 2013
10.11†	First Amendment to the PennyMac Financial Services, Inc. 2013 Equity Incentive Plan.	10-K	March 9, 2018
10.12†	Second Amendment to the PennyMac Financial Services, Inc. 2013 Equity Incentive Plan.	DEF14A	April 17, 2018
10.13†	Third Amendment to the PennyMac Financial Services, Inc. 2013 Equity Incentive Plan.	*	

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Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
10.14†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Stock Option Award Agreement.	8-K	June 17, 2013
10.15†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Performance Components Award Agreement (2018).	10-Q	August 2, 2018
10.16†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Continued Service Award Agreement (2018).	10-Q	August 2, 2018
10.17†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Stock Option Award Agreement (2018).	10-Q	August 2, 2018
10.18†	Omnibus Amendment to PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Restricted Stock Unit Award Agreements (2019).	10-K	March 5, 2019
10.19†	Omnibus Amendment to PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Stock Option Award Agreement (2019).	10-K	March 5, 2019
10.20†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Award Agreement for Non-Employee Directors (2019).	10-Q	May 6, 2019
10.21†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Continued Service Award Agreement (Net Share Withholding) (2020).	10-Q	November 4, 2019
10.22†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Continued Service Award Agreement (Sale to Cover) (2020).	10-Q	November 4, 2019
10.23†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Performance Components Award Agreement (Net Share Withholding) (2020).	10-Q	November 4, 2019
10.24†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Performance Components Award Agreement (Sale to Cover) (2020).	10-Q	November 4, 2019
10.25†	Omnibus Amendment to PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Award Agreements (Net Share Withholding) (2017-2019).	10-Q	November 4, 2019
10.26†	Omnibus Amendment to PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Restricted Stock Unit Award Agreements (Sale to Cover) (2017-2019).	10-Q	November 4, 2019

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Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
10.27†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Stock Option Award Agreement (2020).	10-Q	May 7, 2020
10.28†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Continued Service Award Agreement (Net Share Withholding) (2020).	10-Q	May 7, 2020
10.29†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Continued Service Award Agreement for Non Employee Directors (2020).	10-Q	May 7, 2020
10.30†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Performance Components Award Agreement (Sale to Cover) (2020).	10-Q	May 7, 2020
10.31†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Continued Service Award Agreement (Sale to Cover) (2020).	10-Q	May 7, 2020
10.32†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Performance Components Award Agreement (Net Share Withholding) (2020).	10-Q	May 7, 2020
10.33†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Stock Option Award Agreement (Special Option 2020).	*	
10.34†	PennyMac Financial Services, Inc. 2013 Equity Incentive Plan Form of Restricted Stock Unit Subject to Continued Service Award Agreement for Non Employee Directors.	*	
10.35	Third Amended and Restated Management Agreement, dated as of June 30, 2020, by and among PennyMac Mortgage Investment Trust, PennyMac Operating Partnership, L.P. and PNMAC Capital Management, LLC.	8-K	July 2, 2020
10.36	Fourth Amended and Restated Flow Servicing Agreement, dated as of June 30, 2020, between PennyMac Operating Partnership, L.P. and PennyMac Loan Services, LLC.	8-K	July 2, 2020
10.37	Second Amended and Restated Mortgage Banking Services Agreement, dated as of June 30, 2020, between PennyMac Loan Services, LLC and PennyMac Corp.	8-K	July 2, 2020
10.38	Amendment No. 1 to Second Amended and Restated Mortgage Banking Services Agreement, dated as of December 8, 2020, by and between PennyMac Loan Services, LLC and PennyMac Corp.	*	

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Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
10.39	Second Amended and Restated MSR Recapture Agreement, dated as of June 30, 2020, between PennyMac Loan Services, LLC and PennyMac Corp.	8-K	July 2, 2020
10.40	Amendment No. 1 to Second Amended and Restated MSR Recapture Agreement, dated as of December 8, 2020, by and between PennyMac Loan Services, LLC and PennyMac Corp.	*	
10.41	Second Amended and Restated Underwriting Fee Reimbursement Agreement, dated as of February 1, 2019, by and among PennyMac Mortgage Investment Trust, PennyMac Operating Partnership, L.P. and PNMAC Capital Management, LLC.	10-K	March 5, 2019
10.42	Mortgage Loan Purchase Agreement, dated as of September 25, 2012, by and between PennyMac Loan Services, LLC and PennyMac Corp.	10-K	March 10, 2016
10.43	Flow Sale Agreement, dated as of June 16, 2015, by and between PennyMac Corp. and PennyMac Loan Services, LLC.	10-Q	August 7, 2015
10.44	HELOC Flow Purchase and Servicing Agreement, dated as of February 25, 2019, by and between PennyMac Loan Services, LLC and PennyMac Corp.	10-Q	May 6, 2019
10.45	Third Amended and Restated Base Indenture, dated as of April 1, 2020, by and among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC, Credit Suisse First Boston Mortgage Capital LLC and Pentalpha Surveillance LLC.	8-K	April 7, 2020
10.46	Amended and Restated Series 2016-MSRVF1 Indenture Supplement to Indenture, dated as of February 28, 2018, by and among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC and Credit Suisse First Boston Mortgage Capital LLC.	8-K	March 6, 2018
10.47	Amendment No. 1 to Amended and Restated Series 2016-MSRVF1 Indenture Supplement, dated as of August 10, 2018, by and among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC and Credit Suisse First Boston Mortgage Capital LLC.	10-Q	November 2, 2018
10.48 ^	Amendment No. 2 to the Amended and Restated Series 2016-MSRVF1 Indenture Supplement, dated as of April 24, 2020, by and among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC, and Credit Suisse First Boston Mortgage Capital LLC.	10-Q	May 7, 2020

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Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
10.49 ^	Amendment No. 3 to the Amended and Restated Series 2016-MSRVF1 Indenture Supplement, dated as of August 25, 2020, among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC, and Credit Suisse First Boston Mortgage Capital LLC.	10-Q	November 6, 2020
10.50	Series 2018-GT1 Indenture Supplement, dated as of February 28, 2018, to Second Amended and Restated Base Indenture, dated as of August 10, 2017, by and among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC and Credit Suisse First Boston Mortgage Capital LLC.	8-K	March 6, 2018
10.51	Series 2018-GT2 Indenture Supplement, dated as of August 10, 2018, to Second Amended and Restated Base Indenture, dated as of August 10, 2017, by and among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC and Credit Suisse First Boston Mortgage Capital LLC.	8-K	August 15, 2018
10.52	Guaranty, dated as of December 19, 2016, made by Private National Mortgage Acceptance Company, LLC, in favor of PNMAC GMSR ISSUER TRUST.	8-K	December 21, 2016
10.53	Amendment No. 1 to Guaranty, dated as of February 16, 2017, by and between PNMAC GMSR ISSUER TRUST and Private National Mortgage Acceptance Company, LLC.	8-K	February 23, 2017
10.54	Amended and Restated Master Repurchase Agreement, dated as of April 1, 2020, by and among PNMAC GMSR ISSUER TRUST, PennyMac Loan Services, LLC and Private National Mortgage Acceptance Company, LLC.	8-K	April 7, 2020
10.55	Master Repurchase Agreement, dated as of December 19, 2016, by and among PennyMac Holdings, LLC, PennyMac Loan Services, LLC, and PennyMac Mortgage Investment Trust.	8-K	December 21, 2016
10.56	Guaranty, dated as of December 19, 2016, by PennyMac Mortgage Investment Trust, in favor of PennyMac Loan Services, LLC.	8-K	December 21, 2016
10.57	Subordination, Acknowledgment and Pledge Agreement, dated as of December 19, 2016, between PNMAC GMSR ISSUER TRUST and PennyMac Holdings, LLC.	8-K	December 21, 2016
10.58	Master Repurchase Agreement, dated as of December 19, 2016, by and among, Credit Suisse First Boston Mortgage Capital LLC, Credit Suisse AG, Cayman Islands Branch, and PennyMac Loan Services, LLC.	8-K	December 21, 2016

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Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
10.59	Amendment No. 1 to Master Repurchase Agreement, dated as of February 28, 2018, by and among Credit Suisse First Boston Mortgage Capital LLC, Credit Suisse AG, Cayman Islands Branch, and PennyMac Loan Services, LLC.	8-K	March 6, 2018
10.60	Amendment No. 2 to Master Repurchase Agreement, dated as of April 1, 2020, by and among Credit Suisse First Boston Mortgage Capital LLC, Credit Suisse AG, Cayman Islands Branch and PennyMac Loan Services, LLC.	10-Q	May 7, 2020
10.61 ^	Joint Amendment No. 3 to the Series 2016-MSRVF1 Repurchase Agreement and Amendment No. 2 to the Pricing Side Letter, dated as of April 24, 2020, among Credit Suisse First Boston Mortgage Capital LLC, Credit Suisse AG, Cayman Islands Branch and PennyMac Loan Services, LLC.	10-Q	May 7, 2020
10.62 ^	Joint Amendment No. 4 to the Series 2016-MSRVF1 Repurchase Agreement and Amendment No. 3 to the Pricing Side Letter, dated as of August 25, 2020, among Credit Suisse First Boston Mortgage Capital LLC, Credit Suisse AG, Cayman Islands Branch, and PennyMac Loan Services, LLC.	10-Q	November 6, 2020
10.63	Amended and Restated Guaranty, dated April 1, 2020, made by Private National Mortgage Acceptance Company, LLC in favor of Credit Suisse First Boston Mortgage Capital LLC.	8-K	April 7, 2020
10.64	Master Repurchase Agreement, dated as of April 1, 2020, by and among Credit Suisse First Boston Mortgage Capital LLC, Credit Suisse AG, Cayman Islands Branch and PennyMac Loan Services, LLC.	8-K	April 7, 2020
10.65 ^	Joint Amendment No. 1 to the Series 2020-SPIADVF1 Repurchase Agreement and Amendment No. 1 to the Pricing Side Letter, dated as of April 24, 2020, among Credit Suisse First Boston Mortgage Capital LLC, Credit Suisse AG, Cayman Islands Branch and PennyMac Loan Services, LLC.	10-Q	May 7, 2020
10.66 ^	Joint Amendment No. 2 to the Series 2020-SPIADVF1 Repurchase Agreement and Amendment No. 2 to the Pricing Side Letter, dated as of August 25, 2020, among Credit Suisse First Boston Mortgage Capital, LLC, Credit Suisse AG, Cayman Islands Branch and PennyMac Loan Services, LLC.	10-Q	November 6, 2020
10.67	Series 2020-SPIADVF1 Indenture Supplement, dated as of April 1, 2020, to Third Amended and Restated Base Indenture, dated as of April 1, 2020, by and among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC and Credit Suisse First Boston Mortgage Capital LLC.	8-K	April 7, 2020

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Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
10.68	Consent Letter regarding Series 2020-SPIADVF1 Indenture Supplement, dated as of April 24, 2020, by and among PennyMacLoan Services, LLC and Credit Suisse First Boston Mortgage Capital LLC.	10-Q	May 7, 2020
10.69	Amendment No. 1 to the Amended and Restated Series 2020-SPIADVF1 Indenture Supplement, dated as of August 25, 2020, among PNMAC GMSR ISSUER TRUST, Citibank, N.A., PennyMac Loan Services, LLC, and Credit Suisse First Boston Mortgage Capital LLC.	10-Q	November 6, 2020
21.1	Subsidiaries of PennyMac Financial Services, Inc.	*	
23.1	Consent of Deloitte & Touche LLP.	*	
31.1	Certification of David A. Spector pursuant to Rule 13a-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	*	
31.2	Certification of Daniel S. Perotti pursuant to Rule 13a-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.	*	
32.1	Certification of David A. Spector pursuant to Rule 13a-14(b) and 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	**	
32.2	Certification of Daniel S. Perotti pursuant to Rule 13a-14(b) and 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.	**	
101	Interactive data files pursuant to Rule 405 of Regulation S-T, formatted in Inline XBRL: (i) the Consolidated Balance Sheets as of December 31, 2020 and December 31, 2019 (ii) the Consolidated Statements of Income for the years ended December 31, 2020 and December 31, 2019, (iii) the Consolidated Statements of Changes in Stockholders' Equity for the years ended December 31, 2020 and December 31, 2019, (iv) the Consolidated Statements of Cash Flows for the years ended December 31, 2020 and December 31, 2019 and (v) the Notes to the Consolidated Financial Statements.		
101.INS	XBRL Instance Document – the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document		
101.SCH	Inline XBRL Taxonomy Extension Schema Document		
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document		

Exhibit No.	Exhibit Description	Incorporated by Reference from the Below-Listed Form (Each Filed under SEC File Number 15-68669 or 001-38727)	
		Form	Filing Date
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document		
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document		
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document		
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).		

^ Portions of the exhibit have been redacted.

* Filed herewith

** The certifications attached hereto as Exhibits 32.1 and 32.2 are furnished to the SEC pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 and shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, except as shall be expressly set forth by specific reference in such filing.

† Indicates management contract or compensatory plan or arrangement.

Item 16. Form 10-K Summary

None.

PENNYMAC FINANCIAL SERVICES, INC.
INDEX TO CONSOLIDATED FINANCIAL STATEMENTS
December 31, 2020

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of
PennyMac Financial Services, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of PennyMac Financial Services, Inc. and subsidiaries (the “Company”) as of December 31, 2020 and 2019, the related consolidated statements of income, changes in stockholders’ equity, and cash flows, for each of the three years in the period ended December 31, 2020, and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020 in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company’s internal control over financial reporting as of December 31, 2020, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 25, 2021, expressed an unqualified opinion on the Company’s internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Mortgage Servicing Rights (“MSRs”) - Refer to Notes 3, 6 and 9 to the Financial Statements

Critical Audit Matter Description

The Company accounts for MSRs at fair value and categorizes its MSRs as “Level 3” fair value assets. The Company uses a discounted cash flow approach to estimate the fair value of MSRs. The key inputs used in the estimation of the fair value of MSRs include the applicable pricing spread (a component of the discount rate), the prepayment rates of the underlying loans (“prepayment speed”) and the annual per-loan cost of servicing, all of which are unobservable.

Significant changes to any of those inputs in isolation could result in a significant change in the MSRs' fair value measurement.

We identified the pricing spread and prepayment speed assumptions used in the valuation of MSRs as a critical audit matter because of the significant judgments made by management in determining these assumptions. Auditing these assumptions required a high degree of auditor judgment and an increased extent of effort, including the need to involve our fair value specialists, to evaluate the reasonableness of management's estimates and assumptions related to selection of the pricing spread and prepayment speed.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to the pricing spread and prepayment speed assumptions used by the Company to estimate the fair value of MSRs included the following, among others:

- We tested the design and operating effectiveness of internal controls over determining the fair value of MSRs, including those over the determination of the pricing spread and prepayment speed assumptions
- With the assistance of our fair value specialists, we evaluated the reasonableness of management's prepayment speed assumptions by comparing them to independent market information
- We evaluated the reasonableness of management's prepayment speed assumptions of the underlying mortgage loans, by comparing historical prepayment speed assumptions to actual results
- We tested management's process for determining the pricing spread assumptions by comparing them to the implied spreads within market transactions and other third-party information used by management

/s/ **DELOITTE & TOUCHE LLP**

Los Angeles, California

February 25, 2021

We have served as the Company's auditor since 2008.

**PENNYMAC FINANCIAL SERVICES, INC.
CONSOLIDATED BALANCE SHEETS**

	December 31, 2020	December 31, 2019
	(in thousands, except share amounts)	
ASSETS		
Cash (includes \$52,599 pledged to creditors at December 31, 2019)	\$ 532,716	\$ 188,291
Short-term investments at fair value	15,217	74,611
Loans held for sale at fair value (includes \$11,457,678 and \$4,846,138 pledged to creditors)	11,616,400	4,912,953
Assets purchased from PennyMac Mortgage Investment Trust under agreements to resell pledged to creditors	80,862	107,512
Derivative assets	711,238	159,686
Servicing advances, net (includes valuation allowance of \$181,433 and \$82,157; \$413,484 and \$207,460 pledged to creditors)	579,528	331,169
Mortgage servicing rights at fair value (includes \$2,577,964 and \$2,920,603 pledged to creditors)	2,581,174	2,926,790
Operating lease right-of-use assets	74,934	73,090
Investment in PennyMac Mortgage Investment Trust at fair value	1,105	1,672
Receivable from PennyMac Mortgage Investment Trust	87,005	48,159
Loans eligible for repurchase	14,625,447	1,046,527
Other (includes \$166,418 and \$32,598 pledged to creditors)	692,169	333,557
Total assets	<u>\$ 31,597,795</u>	<u>\$ 10,204,017</u>
Assets sold under agreements to repurchase	\$ 9,654,797	\$ 4,141,053
Mortgage loan participation purchase and sale agreements	521,477	497,948
Obligations under capital lease	11,864	20,810
Notes payable secured by mortgage servicing assets	1,295,840	1,294,070
Unsecured senior notes	645,820	—
Excess servicing spread financing payable to PennyMac Mortgage Investment Trust at fair value	131,750	178,586
Derivative liabilities	42,638	22,330
Mortgage servicing liabilities at fair value	45,324	29,140
Accounts payable and accrued expenses	308,398	175,273
Operating lease liabilities	94,193	91,320
Payable to PennyMac Mortgage Investment Trust	140,306	73,280
Payable to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement	35,165	46,158
Income taxes payable	622,700	504,569
Liability for loans eligible for repurchase	14,625,447	1,046,527
Liability for losses under representations and warranties	32,688	21,446
Total liabilities	<u>28,208,407</u>	<u>8,142,510</u>
Commitments and contingencies – Note 15		
STOCKHOLDERS' EQUITY		
Common stock—authorized 200,000,000 shares of \$0.0001 par value; issued and outstanding, 70,905,532 and 78,515,047 shares, respectively	7	8
Additional paid-in capital	1,047,052	1,335,107
Retained earnings	2,342,329	726,392
Total stockholders' equity	<u>3,389,388</u>	<u>2,061,507</u>
Total liabilities and stockholders' equity	<u>\$ 31,597,795</u>	<u>\$ 10,204,017</u>

The accompanying notes are an integral part of these financial statements.

**PENNYMAC FINANCIAL SERVICES, INC.
CONSOLIDATED STATEMENTS OF INCOME**

	Year ended December 31,		
	2020	2019	2018
	(in thousands, except earnings per share)		
Revenues			
Net gains on loans held for sale at fair value:			
From non-affiliates	\$ 2,690,104	\$ 542,163	\$ 184,439
From PennyMac Mortgage Investment Trust	50,681	183,365	64,583
	<u>2,740,785</u>	<u>725,528</u>	<u>249,022</u>
Loan origination fees:			
From non-affiliates	262,143	159,461	94,208
From PennyMac Mortgage Investment Trust	23,408	14,695	7,433
	<u>285,551</u>	<u>174,156</u>	<u>101,641</u>
Fulfillment fees from PennyMac Mortgage Investment Trust	222,200	160,610	81,350
Net loan servicing fees:			
Loan servicing fees:			
From non-affiliates	814,646	730,165	585,101
From PennyMac Mortgage Investment Trust	67,181	48,797	42,045
From Investment Funds	—	—	3
Other	116,464	98,564	64,133
	<u>998,291</u>	<u>877,526</u>	<u>691,282</u>
Change in fair value of mortgage servicing rights and mortgage servicing liabilities	(1,501,993)	(988,614)	(116,344)
Change in fair value of excess servicing spread financing payable to PennyMac Mortgage Investment Trust	24,970	9,256	(8,500)
Hedging results	918,180	395,497	(121,045)
	<u>(558,843)</u>	<u>(583,861)</u>	<u>(245,889)</u>
Net loan servicing fees	439,448	293,665	445,393
Net interest (expense) income:			
Interest income:			
From non-affiliates	243,701	282,398	208,954
From PennyMac Mortgage Investment Trust	3,325	6,302	7,462
	<u>247,026</u>	<u>288,700</u>	<u>216,416</u>
Interest expense:			
To non-affiliates	263,133	201,688	129,459
To PennyMac Mortgage Investment Trust	8,418	10,291	15,138
	<u>271,551</u>	<u>211,979</u>	<u>144,597</u>
Net interest (expense) income	<u>(24,525)</u>	<u>76,721</u>	<u>71,819</u>
Management fees:			
From PennyMac Mortgage Investment Trust	34,538	36,492	24,465
From Investment Funds	—	—	4
	<u>34,538</u>	<u>36,492</u>	<u>24,469</u>
Carried interest from Investment Funds	—	—	(365)
Change in fair value of investment in and dividends received from PennyMac Mortgage Investment Trust	(453)	416	332
Results of real estate acquired in settlement of loans	1,036	557	589
Repricing of payable to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement	280	379	1,126
Other	6,737	8,880	9,253
Total net revenues	<u>3,705,597</u>	<u>1,477,404</u>	<u>984,629</u>
Expenses			
Compensation	738,569	503,458	403,270
Servicing	256,934	164,697	137,104
Loan origination	219,746	117,338	27,398
Technology	112,570	67,946	60,103
Professional services	64,064	32,859	27,615
Occupancy and equipment	33,357	28,916	27,152
Other	39,748	32,746	34,290
Total expenses	<u>1,464,988</u>	<u>947,960</u>	<u>716,932</u>
Income before provision for income taxes	2,240,609	529,444	267,697
Provision for income taxes	593,725	136,479	23,254
Net income	1,646,884	392,965	244,443
Less: Net income attributable to noncontrolling interest	—	—	156,749
Net income attributable to PennyMac Financial Services, Inc. common stockholders	<u>\$ 1,646,884</u>	<u>\$ 392,965</u>	<u>\$ 87,694</u>
Earnings per share			
Basic	\$ 21.91	\$ 5.02	\$ 2.62
Diluted	\$ 20.92	\$ 4.89	\$ 2.59
Weighted average shares outstanding			
Basic	75,161	78,206	33,524
Diluted	78,728	80,340	35,322

The accompanying notes are an integral part of these financial statements.

PENNYMAC FINANCIAL SERVICES, INC.
CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS' EQUITY

	Class A Common Stock		Common Stock		Additional paid-in capital	Retained earnings	Noncontrolling interest in Private National Mortgage Acceptance Company, LLC	Total
	Number of shares	Par value	Number of shares	Par value				
					(in thousands)			
Balance at December 31, 2017	23,530	\$ 2	—	\$ —	\$ 204,103	\$ 265,306	\$ 1,250,263	\$ 1,719,674
Cumulative effect of change in accounting principle - Adoption of fair value accounting for all existing classes of mortgage servicing rights at fair value	—	—	—	—	—	189	587	776
Balance at January 1, 2018	23,530	2	—	—	204,103	265,495	1,250,850	1,720,450
Net income	—	—	—	—	—	87,694	156,749	244,443
Stock and unit-based compensation	299	—	23	—	10,932	—	19,636	30,568
Class A common stock dividends (\$0.40 per share)	—	—	—	—	—	(10,054)	—	(10,054)
Issuance of Class A common stock in settlement of directors' fees	—	—	—	—	79	—	166	245
Repurchase of Class A common stock	(236)	—	—	—	(1,554)	—	(3,272)	(4,826)
Exchange of Class A units of Private National Mortgage Acceptance Company, LLC to Class A common stock of PennyMac Financial Services, Inc.	1,635	1	—	—	33,155	—	(33,156)	—
Exchange of Class A common stock of subsidiary for common stock of PennyMac Financial Services, Inc. pursuant to a reorganization	(25,228)	(3)	25,228	3	—	—	—	—
Exchange of Class A unit of Private National Mortgage Acceptance Company, LLC for common stock of PennyMac Financial Services, Inc. pursuant to a reorganization, net of income tax effect	—	—	52,263	5	1,064,315	—	(1,390,973)	(326,653)
Issuance of common stock in settlement of directors' fees	—	—	4	—	85	—	—	85
Repurchase of common stock	—	—	(24)	—	(467)	—	—	(467)
Balance at December 31, 2018	—	\$ —	77,494	\$ 8	\$ 1,310,648	\$ 343,135	\$ —	\$ 1,653,791
Net income	—	—	—	—	—	392,965	—	392,965
Stock and unit-based compensation	—	—	1,062	—	25,282	—	—	25,282
Issuance of common stock in settlement of directors' fees	—	—	10	—	233	—	—	233
Common stock dividends (\$0.12 per share)	—	—	—	—	—	(9,708)	—	(9,708)
Repurchase of common stock	—	—	(51)	—	(1,056)	—	—	(1,056)
Balance at December 31, 2019	—	\$ —	78,515	\$ 8	\$ 1,335,107	\$ 726,392	\$ —	\$ 2,061,507
Net income	—	—	—	—	—	1,646,884	—	1,646,884
Stock and unit-based compensation	—	—	1,276	—	49,229	—	—	49,229
Issuance of common stock in settlement of directors' fees	—	—	5	—	194	—	—	194
Common stock dividends (\$0.54 per share)	—	—	—	—	—	(30,947)	—	(30,947)
Repurchase of common stock	—	—	(8,890)	(1)	(337,478)	—	—	(337,479)
Balance at December 31, 2020	—	\$ —	70,906	\$ 7	\$ 1,047,052	\$ 2,342,329	\$ —	\$ 3,389,388

The accompanying notes are an integral part of these financial statements.

PENNYMAC FINANCIAL SERVICES, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Cash flow from operating activities			
Net income	\$ 1,646,884	\$ 392,965	\$ 244,443
Adjustments to reconcile net income to net cash used in operating activities:			
Net gains on loans held for sale at fair value	(2,740,785)	(725,528)	(249,022)
Change in fair value of mortgage servicing rights, mortgage servicing liabilities and excess servicing spread	1,477,023	979,358	124,844
Mortgage servicing rights hedging gains	(918,180)	(395,497)	121,045
Capitalization of interest and advance on loans held for sale at fair value	(119,740)	(73,611)	(79,317)
Accrual of interest on excess servicing spread financing payable to PennyMac Mortgage Investment Trust	8,418	10,291	15,138
Amortization of net debt issuance costs and (premiums)	19,048	(4,100)	(29,170)
Carried Interest from Investment Funds	—	—	365
Change in fair value of investment in common shares of PennyMac Mortgage Investment Trust	567	(275)	(192)
Results of real estate acquired in settlement in loans	(1,036)	(557)	(589)
Repricing of payable to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement	(280)	(379)	(1,126)
Stock-based compensation expense	45,105	24,771	25,251
Provision for servicing advance losses	125,898	36,149	40,306
Impairment of capitalized software	13,145	—	—
Depreciation and amortization	25,575	15,021	12,925
Amortization of right-of-use assets	12,284	10,158	—
Purchase of loans held for sale from PennyMac Mortgage Investment Trust	(63,618,185)	(50,110,085)	(37,967,724)
Origination of loans held for sale	(31,783,465)	(11,831,703)	(5,000,193)
Purchase of loans held for sale from non-affiliates	(3,799,336)	(1,725,227)	(531,665)
Purchase of loans from Ginnie Mac securities and early buyout investors for modification and subsequent sale	(11,156,684)	(6,271,447)	(4,036,147)
Sale to non-affiliates and principal payments of loans held for sale	102,840,312	61,214,102	44,557,560
Sale of loans held for sale to PennyMac Mortgage Investment Trust	2,248,896	6,255,915	3,343,028
Repurchase of loans subject to representations and warranties	(58,375)	(18,660)	(26,021)
Settlement of repurchase agreement derivatives	8,270	31,993	31,907
Increase in servicing advances	(391,440)	(98,121)	(33,415)
Increase in receivable from PennyMac Mortgage Investment Trust	(48,320)	(20,257)	(9,672)
Sale of real estate acquired in settlement of loans	32,555	28,901	4,037
Increase in other assets	(334,045)	(62,549)	(7,791)
Increase in accounts payable and accrued expenses	135,314	38,551	32,750
Decrease in operating lease liabilities	(13,421)	(12,680)	—
Increase (decrease) in payable to PennyMac Mortgage Investment Trust	37,642	(36,645)	(34,472)
Payments to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement	(10,713)	—	—
Increase in income taxes payable	118,131	104,023	25,313
Net cash (used in) provided by operating activities	(6,198,938)	(2,245,123)	572,396

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Cash flow from investing activities			
Decrease in short-term investments	59,394	43,213	52,256
Net change in assets purchased from PMT under agreement to resell	26,650	23,513	13,103
Net settlement of derivative financial instruments used for hedging of mortgage servicing rights	913,064	366,137	(122,227)
Purchase of mortgage servicing rights	(25,473)	(227,445)	(227,664)
Purchase of furniture, fixtures, equipment and leasehold improvements	(10,671)	(6,124)	(13,421)
Acquisition of capitalized software	(48,090)	(29,385)	(17,444)
Increase in margin deposits	(131,840)	(21,127)	(7,214)
Net cash provided by (used in) investing activities	783,034	148,782	(322,611)
Cash flow from financing activities			
Sale of assets under agreements to repurchase	102,232,005	63,803,260	41,375,177
Repurchase of assets sold under agreements to repurchase	(96,709,690)	(61,596,780)	(41,820,843)
Issuance of mortgage loan participation purchase and sale certificates	23,607,079	23,451,400	25,284,270
Repayment of mortgage loan participation purchase and sale certificates	(23,583,550)	(23,485,918)	(25,279,510)
Advance of obligations under capital lease	—	25,123	—
Repayment of obligations under capital lease	(8,946)	(10,918)	(14,366)
Issuance of notes payable secured by mortgage servicing assets	—	—	1,300,000
Repayment of notes payable secured by mortgage servicing assets	—	—	(900,000)
Issuance of unsecured senior notes	650,000	—	—
Repayment of excess servicing spread financing	(32,377)	(40,316)	(46,750)
Payment of debt issuance costs	(30,112)	(6,603)	(19,982)
Issuance of common stock pursuant to exercise of stock options	9,389	5,145	5,317
Payment of withholding taxes relating to stock-based compensation	(5,265)	(4,634)	—
Payment of dividend to holders of common stock and Class A common stock	(30,947)	(9,708)	(10,054)
Repurchase of common stock	(337,479)	(1,056)	(5,293)
Net cash provided by (used in) financing activities	5,760,107	2,128,995	(132,034)
Net increase in cash and restricted cash	344,203	32,654	117,751
Cash and restricted cash at beginning of year	188,578	155,924	38,173
Cash and restricted cash at end of year	\$ 532,781	\$ 188,578	\$ 155,924
Cash and restricted cash at end of year are comprised of the following:			
Cash	\$ 532,716	\$ 188,291	\$ 155,289
Restricted cash included in <i>Other</i> assets	65	287	635
	\$ 532,781	\$ 188,578	\$ 155,924

The accompanying notes are an integral part of these financial statements.

**PENNYMAC FINANCIAL SERVICES, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS**

Note 1—Organization

PennyMac Financial Services, Inc. (formerly known as New PennyMac Financial Services, Inc.) (“PFSI” or the “Company”) is a holding corporation and its primary assets are direct and indirect equity interests in Private National Mortgage Acceptance Company, LLC (“PennyMac”). The Company is the managing member of PennyMac, and it operates and controls all of the businesses and consolidates the financial results of PennyMac and its subsidiaries.

PennyMac is a Delaware limited liability company which, through its subsidiaries, engages in mortgage banking and investment management activities. PennyMac’s mortgage banking activities consist of residential mortgage loan production and loan servicing. PennyMac’s investment management activities and a portion of its loan production and loan servicing activities are conducted on behalf of entities that invest in residential mortgage loans and related assets. PennyMac’s primary wholly owned subsidiaries are:

- *PennyMac Loan Services, LLC (“PLS”)*—a Delaware limited liability company that services portfolios of residential mortgage loans on behalf of non-affiliates and PennyMac Mortgage Investment Trust (“PMT”), a publicly held real estate investment trust, purchases, originates and sells new prime credit quality residential mortgage loans and engages in other mortgage banking activities for its own account and the account of PMT.

PLS is approved as a seller/servicer of mortgage loans by the Federal National Mortgage Association (“Fannie Mae”) and the Federal Home Loan Mortgage Corporation (“Freddie Mac”) and as an issuer of securities guaranteed by the Government National Mortgage Association (“Ginnie Mae”). PLS is a licensed Federal Housing Administration Nonsupervised Title II Lender with the U.S. Department of Housing and Urban Development (“HUD”) and a lender/servicer with the Veterans Administration (“VA”) and U.S. Department of Agriculture (“USDA”) (each of the above an “Agency” and collectively the “Agencies”).

- *PNMAC Capital Management, LLC (“PCM”)*—a Delaware limited liability company registered with the Securities and Exchange Commission (“SEC”) as an investment adviser under the Investment Advisers Act of 1940, as amended. PCM enters into investment management agreements with entities that invest in residential mortgage loans and related assets.

Presently, PCM has a management agreement with PMT. Previously, PCM had management agreements with PNMAC Mortgage Opportunity Fund, LLC and PNMAC Mortgage Opportunity Fund, L.P., an affiliate of these registered funds, and PNMAC Mortgage Opportunity Fund Investors, LLC (collectively, the “Investment Funds”). Together, PMT and the Investment Funds are referred to as the “Advised Entities”. The Investment Funds were dissolved during 2018.

On November 1, 2018, PNMAC Holdings, Inc. (formerly known as PennyMac Financial Services, Inc.) (“PNMAC Holdings” or “Old PFSI”) completed a corporate reorganization (the “Reorganization”) by which it changed its equity structure to create a single class of common stock held by all stockholders at a new top-level publicly traded parent holding corporation, as opposed to the two classes of common stock, Class A and Class B, that were in place at Old PFSI before the Reorganization. As part of the Reorganization, the Company replaced Old PFSI as the top-level parent holding corporation of the consolidated PennyMac business and changed its name from New PennyMac Financial Services, Inc. (“New PFSI”).

As the result of the reorganization:

- Each outstanding share of Class A common stock of Old PFSI was converted on a one-for-one basis into shares of New PFSI common stock.

- Each outstanding share of Class B common stock of Old PFSI was cancelled for no consideration.
- Each Class A unit of PennyMac not held by Old PFSI was contributed to New PFSI and exchanged on a one-for-one basis for shares of New PFSI common stock.
- New PFSI replaced Old PFSI as the publicly-held entity and, through its subsidiaries, conducts all of the operations previously conducted by Old PFSI.
- Old PFSI changed its name to PNMAC Holdings, Inc. and New PFSI changed its name to PennyMac Financial Services, Inc.
- New PFSI assumed Old PFSI's existing equity incentive plan—including all performance share awards, restricted share awards, common stock options and other incentive awards covering shares of Old PFSI's Class A common stock, whether vested or not vested, that were outstanding at the effective time of the Reorganization.

New PFSI reserved the same number of shares of its common stock as was reserved by Old PFSI before the effective time of the Reorganization, and the terms and conditions that were in effect immediately before the Reorganization under each outstanding incentive award assumed by New PFSI continued in full force and effect after the Reorganization, except that the shares of Class A common stock reserved under Old PFSI's plans and issuable under each such award will be replaced by shares of common stock of New PFSI.

- The Reorganization was treated as an integrated transaction that qualifies as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code and/or a transfer described in Section 351(a) of the Internal Revenue Code.
- After the completion of the Reorganization, PNMAC Holdings became a consolidated subsidiary of the Company and is considered the predecessor of the Company for accounting purposes. Accordingly, PNMAC Holdings' historical consolidated financial statements are the Company's historical financial statements.

Note 2—Concentration of Risk

A substantial portion of the Company's activities relate to the Advised Entities. Revenues generated from these entities (generally comprised of gains on mortgage loans held for sale, loan origination fees, fulfillment fees, loan servicing fees, management fees, carried interest, less net interest paid to these entities) totaled 11%, 31%, and 21% of total net revenues for the years ended December 31, 2020, 2019 and 2018, respectively.

Note 3—Significant Accounting Policies and Recently Issued Accounting Pronouncement

A description of the Company's significant accounting policies applied in the preparation of these consolidated financial statements follows.

Basis of Presentation

The Company's consolidated financial statements have been prepared in compliance with accounting principles generally accepted in the United States ("GAAP") as codified in the Financial Accounting Standards Board's ("FASB") *Accounting Standards Codification* (the "ASC" or the "Codification").

Certain asset amounts separately presented at December 31, 2019 have been reclassified to *Other* assets to conform to the current year presentation. Such amounts are detailed in Note 11—*Other Assets*.

Principles of Consolidation

The consolidated financial statements include the accounts of PFSI and its wholly-owned subsidiaries, including PennyMac. Intercompany accounts and transactions have been eliminated.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make judgments and estimates that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. Actual results will likely differ from those estimates.

Cash Flows

For the purpose of presentation in the statement of cash flows, the Company has identified tenant security deposits relating to rental properties owned by PMT and managed by the Company as restricted cash. Tenant security deposits are included in *Other* assets on the Company's consolidated balance sheets.

Fair Value

Most of the Company's assets and certain of its liabilities are measured at or based on their fair values. The Company groups its assets and liabilities at fair value in three levels, based on the markets in which the assets and liabilities are traded and the observability of the inputs used to determine fair value. These levels are:

- Level 1—Quoted prices in active markets for identical assets or liabilities.
- Level 2—Prices determined or determinable using other significant observable inputs. Observable inputs are inputs that other market participants would use in pricing an asset or liability and are developed based on market data obtained from sources independent of the Company.
- Level 3— Prices determined using significant unobservable inputs. In situations where observable inputs are unavailable, unobservable inputs may be used. Unobservable inputs reflect the Company's own judgments about the factors that market participants use in pricing an asset or liability, and are based on the best information available in the circumstances.

As a result of the difficulty in observing certain significant valuation inputs affecting "Level 3" fair value assets and liabilities, the Company is required to make judgments regarding these items' fair values. Different persons in possession of the same facts may reasonably arrive at different conclusions as to the inputs to be applied in valuing these assets and liabilities and their fair values. Such differences may result in significantly different fair value measurements. Likewise, due to the general illiquidity of some of these assets and liabilities, subsequent transactions may be at values significantly different from those reported.

Short-Term Investments

Short-term investments, which represent investments in accounts with depository institutions, are carried at fair value. Changes in fair value are recognized in current period income. The Company classifies its short-term investments as "Level 1" fair value assets.

Loans Held for Sale at Fair Value

The Company has elected to account for loans held for sale at fair value, with changes in fair value recognized in current period income, to more timely reflect the Company's performance. All changes in fair value are recognized as a component of *Net gains on loans held for sale at fair value*. The Company classifies most of the loans held for sale at fair value as "Level 2" fair value assets. Certain of the Company's loans held for sale may not be saleable into active markets due to identified defects or delinquency. Such loans are classified as "Level 3" fair value assets.

Sale Recognition

The Company recognizes transfers of loans as sales when it surrenders control over the loans. Control over transferred loans is deemed to be surrendered when (i) the loans have been isolated from the Company, (ii) the transferee has the right (free of conditions that constrain it from taking advantage of that right) to pledge or exchange the transferred loans, and (iii) the Company does not maintain effective control over the transferred loans through either (a) an agreement that entitles and obligates the Company to repurchase or redeem them before their maturity or (b) the ability to unilaterally cause the holder to return specific loans.

Interest Income Recognition

Interest income on loans held for sale at fair value is recognized over the life of the loans using their contractual interest rates. Income recognition is suspended and the interest receivable is reversed against interest income when loans become 90 days delinquent. Income recognition is resumed when the loan becomes contractually current.

Derivative Financial Instruments

The Company holds and issues derivative financial instruments that are created as a result of certain of its operations. The Company also enters into derivative transactions as part of its interest rate risk management activities.

Derivative financial instruments created as a result of the Company's operations include:

- Interest rate lock commitments ("IRLCs") that are created when the Company commits to purchase or originate a loan acquired for sale at specified interest rates.
- Derivatives that were embedded in a master repurchase agreement with a non-affiliate that provided for the Company to receive incentives for financing loans that satisfied certain consumer relief characteristics as provided in the master repurchase agreement.

The Company engages in interest rate risk management activities in an effort to moderate the effect of changes in market interest rates on the fair value of the Company's assets. The Company is exposed to price risk relative to:

- Its loans held for sale and IRLCs. The Company bears price risk from the time a commitment to fund a loan is made to a borrower or to purchase a loan from PMT, to the time either the prospective transaction is cancelled or the loan is sold. During this period, the Company is exposed to losses if market interest rates increase, because the fair value of the purchase commitment or prospective loan decreases.
- The fair value of its mortgage servicing rights ("MSRs") when interest rates decrease. MSRs are generally subject to reduction in fair value when mortgage interest rates decrease. Decreasing mortgage interest rates normally encourage increased mortgage refinancing activity. Increased refinancing activity reduces the expected life of the mortgage loans underlying the MSRs, thereby reducing their fair value. Reductions in the fair value of MSRs affect earnings primarily through recognition of changes in fair value.

To manage the fair value risk resulting from interest rate risk, the Company uses derivative financial instruments acquired with the intention of reducing the risk that changes in market interest rates will result in unfavorable changes in the fair value of the Company's IRLCs, inventory of loans held for sale and MSRs.

IRLCs are accounted for as derivative financial instruments. The Company manages the risk created by IRLCs relating to mortgage loans held for sale by entering into forward sale agreements to sell the mortgage loans or mortgage-backed securities ("MBS") and by the purchase and sale of options on MBS. Such agreements are also accounted for as derivative financial instruments. These and other interest-rate derivatives are also used to manage the fair value risk created by changes in prepayment speeds on certain of the MSRs the Company holds.

The Company classifies its IRLCs as "Level 3" fair value assets and liabilities. Fair value of exchange-traded hedging derivative financial instruments that are actively traded on an exchange are categorized by the Company as "Level 1" fair value assets and liabilities. Fair value of hedging derivative financial instruments based on observable MBS prices or interest rate volatilities in the MBS market are categorized as "Level 2" fair value assets and liabilities.

The Company does not designate its derivative financial instruments for hedge accounting. Therefore, the Company accounts for its derivative financial instruments as free-standing derivatives. All derivative financial instruments are recognized on the consolidated balance sheet at fair value with changes in the fair values being reported in current period income.

Changes in fair value of derivative financial instruments hedging IRLCs, loans held for sale at fair value and MSRs are included in *Net gains on loans held for sale at fair value* or in *Change in fair value of mortgage servicing rights and mortgage servicing liabilities*, as applicable, in the Company's consolidated statements of income. Changes in fair value of derivative assets relating to a master repurchase agreement are included in *Interest expense*.

Cash flows from derivative financial instruments relating to hedging of IRLCs and loans acquired for sale are included in *Cash flows from operating activities* in *Sale and repayment of loans acquired for sale at fair value to nonaffiliates*; cash flows from derivative financial instruments relating to hedging of MSRs is included in *Cash flows from investing activities*; and cash flows from repurchase agreement derivatives are included in *Cash flows from operating activities*.

When the Company has multiple derivative financial instruments with the same counterparty subject to a master netting arrangement, it offsets the amounts recorded as assets and liabilities and amounts recognized for the right to reclaim cash collateral it has deposited with the counterparty or the obligation to return cash collateral it has collected from the counterparty arising from that master netting arrangement. Such offset amounts are presented as either a net asset or liability by counterparty on the Company's consolidated balance sheets.

Servicing Advances

Servicing advances represent advances made on behalf of borrowers and the mortgage loans' investors to fund property taxes, insurance premiums and out-of-pocket collection costs (e.g., preservation and restoration of mortgaged property or real estate acquired in the settlement of loans ("REO"), legal fees, and appraisals). Servicing advances are made in accordance with the Company's servicing agreements and, when made, are deemed recoverable. A valuation allowance is provided for amounts expected to become uncollectable. Servicing advances are written off when they are deemed uncollectable.

Mortgage Servicing Rights and Mortgage Servicing Liabilities

MSRs and mortgage servicing liabilities ("MSLs") arise from contractual agreements between the Company and investors (or their agents) in mortgage securities and mortgage loans. Under these contracts, the Company performs loan servicing functions in exchange for fees and other remuneration. The servicing functions typically performed include, among other responsibilities, collecting and remitting loan payments; responding to borrower inquiries; accounting for principal and interest; holding custodial (impound) funds for payment of property taxes and insurance premiums; counseling delinquent mortgagors; and supervising the acquisition and disposition of REO.

The Company is contractually entitled to receive other remuneration including various mortgagor-contracted fees such as late charges and collateral reconveyance charges, and the Company is generally entitled to retain the placement fees earned on impounded funds and funds held pending remittance related to its collection of mortgagor payments. The Company also generally has the right to solicit the mortgagors for other products and services as well as for new mortgages for those considering refinancing their existing loan or purchasing a new home.

The Company recognizes MSRs and MSLs initially at fair value, either as proceeds from or liabilities incurred in, sales of mortgage loans where the Company assumes the obligation to service the mortgage loan in the sale transaction, or from the purchase of MSRs or receipt of cash for acceptance of MSLs.

The fair value of MSRs and MSLs is derived from the net positive or negative, respectively, cash flows associated with the servicing contracts. For loans subject to MSR and MSL contracts, the Company receives a servicing fee, net of related guarantee fees, based on the remaining outstanding principal balances of the mortgage loans subject to the servicing contracts. The servicing fees are collected from the monthly payments made by the mortgagors.

Through December 31, 2017, the Company's subsequent accounting for MSRs and MSLs was based on the class of MSR or MSL. Effective January 1, 2018, the Company elected to change the accounting for MSRs it had accounted for using the amortization method through December 31, 2017, to the fair value method as allowed in the *Transfers and Servicing* topic of the FASB's ASC. The Company determined that a single accounting treatment across all currently existing classes of MSRs is consistent with lender valuation under its financing arrangements and simplifies that Company's hedging activities. As a result of this change, the Company recorded an adjustment to increase its investment in MSRs by \$848,000, increase its liability for income taxes payable by \$72,000 and increase its stockholders' equity by \$776,000.

The fair value of MSRs and MSLs is difficult to determine because MSRs and MSLs are not actively traded in observable stand-alone markets. Considerable judgment is required to estimate the fair values of MSRs and MSLs and the exercise of such judgment can significantly affect the Company's income. Therefore, the Company classifies its MSRs and MSLs as "Level 3" fair value assets and liabilities.

Changes in fair value of MSLs and MSRs are recognized in current period income in *Change in fair value of mortgage servicing rights and mortgage servicing liabilities* in the consolidated statements of income.

Leases

The Company determines if an arrangement is a lease at inception. If the arrangement is determined to be a lease, the Company recognizes both an *Operating lease right-of-use asset* and a corresponding *Operating lease liability* in its consolidated balance sheet, except leases with initial terms less than or equal to 12 months. Lease expense is recognized on the straight-line basis over the lease term and is recorded in *Occupancy and equipment* in the consolidated statements of income.

The Company's lease agreements include both lease and non-lease components (such as common area maintenance), which are generally included in the lease and are accounted for together with the lease as a single lease component. As such, lease payments represent payments on both lease and non-lease components. At lease commencement, lease liabilities are recognized based on the present value of the remaining lease payments and discounted using the Company's incremental borrowing rate. Right-of-use assets initially equal the lease liability, adjusted for any lease payments made before lease commencement and for any lease incentives.

Furniture, Fixtures, Equipment and Building Improvements

Furniture, fixtures, equipment and building improvements are stated at historical cost less accumulated depreciation and amortization. Depreciation and amortization are computed using the straight-line method over the estimated useful lives of the various classes of assets, which range from five to seven years for furniture and equipment and the lesser of the asset's estimated useful life or the remaining lease term for fixtures and building improvements.

Capitalized Software

The Company capitalizes certain consulting, payroll, and payroll-related costs related to the development of computer software for internal use. Once development is complete and the software is placed in service, the Company amortizes the capitalized costs over three to seven years using the straight-line method.

The Company also periodically assesses capitalized software for recoverability when events or changes in circumstances indicate that its carrying amount may not be recoverable. If the Company identifies an indicator of impairment, it assesses recoverability by comparing the carrying amount of the asset to the sum of the undiscounted cash flows expected to result from the use and the eventual disposal of the asset. An impairment loss is recognized when the carrying amount is not recoverable and is measured as the excess of carrying value over fair value.

Investment in PennyMac Mortgage Investment Trust at Fair Value

Common shares of beneficial interest in PMT are carried at fair value with changes in fair value recognized in current period income. Fair value for purposes of the Company's holdings in PMT is based on the published closing price of the shares as of period end. The Company classifies its investment in common shares of PMT as a "Level 1" fair value asset.

Loans Eligible for Repurchase

The terms of the Ginnie Mae MBS program allow, but do not require, the Company to repurchase loans when the loan is at least three months delinquent. As a result of this right, the Company recognizes the loans in *Loans eligible for repurchase* at their unpaid principal balances and records a corresponding liability in *Liability for loans eligible for repurchase* on its consolidated balance sheets.

Borrowings

The carrying values of borrowings other than ESS are based on the accrued cost of the agreements. The costs of creating the facilities underlying the agreements (debt issuance costs) are included in the carrying value of the agreements and are amortized to *Interest expense* over the terms of the respective borrowing facilities:

- Debt issuance costs relating to revolving facilities, such as repurchase agreement and mortgage loan participation purchase and sale facilities are amortized on the straight line basis over the term of the facility;
- Debt issuance cost relating to non-revolving debts, such as the Company's *Notes payable secured by mortgage servicing assets* and *Unsecured senior notes* are amortized over the contractual term of the non-revolving debt using the interest method;
- Debt issuance premiums recorded as the results of recognition of repurchase agreement derivatives are amortized to *Interest expense* over the contractual term of the repurchase agreement. Unamortized premiums relating to repurchase agreements repaid before the transaction's contractual maturity are credited to *Interest expense*.

Excess Servicing Spread Financing at Fair Value

The Company finances certain of its purchases of Agency MSRs through the sale to PMT of the right to receive the excess of the servicing fee rate over a specified rate of the underlying MSRs. This excess is referred to as the ESS. ESS is carried at its fair value. Changes in fair value of ESS are recognized in current period income in *Change in fair value of excess servicing spread payable to PennyMac Mortgage Investment Trust*.

Interest expense for ESS is accrued using the interest method based upon the expected cash flows from the ESS through the expected life of the underlying mortgage loans.

Liability for Losses Under Representations and Warranties

The Company's agreements with the Agencies and other investors include representations and warranties related to the loans the Company sells to the Agencies and other investors. The representations and warranties require adherence to Agency and other investor origination and underwriting guidelines, including but not limited to the validity of the lien securing the loan, property eligibility, borrower credit, income and asset requirements, and compliance with applicable federal, state and local law.

In the event of a breach of its representations and warranties, the Company may be required to either repurchase the loans with the identified defects or indemnify the investor or insurer. In such cases, the Company bears any subsequent credit loss on the loans. The Company's credit loss may be reduced by any recourse it may have to correspondent loan sellers that, in turn, had sold such mortgage loans to PMT and breached similar or other representations and warranties. In such event, the Company has the right to seek a recovery of related repurchase losses from that correspondent loan seller, through PMT.

As a result of providing representations and warranties to investors and insurers, the Company records a provision for losses relating to representations and warranties as part of its loan sale transactions. The method used to estimate the liability for representations and warranties is a function of the representations and warranties given and considers a combination of factors, including, but not limited to, estimated future defaults and loan repurchase rates, the estimated severity of loss in the event of default and the probability of reimbursement by the correspondent loan seller. The Company establishes a liability at the time loans are sold and periodically updates its liability estimate. The level of the liability for representations and warranties is reviewed and approved by the Company's management credit committee comprised of senior management.

The level of the liability for representations and warranties is difficult to estimate and requires considerable judgment. The level of loan repurchase losses is dependent on economic factors, investor repurchase demand or insurer claim denial strategies, and other external conditions that may change over the lives of the underlying loans. The Company's representations and warranties are generally not subject to stated limits of exposure. However, the Company believes that the current unpaid principal balance of loans sold to date represents the maximum exposure to repurchases related to representations and warranties.

Loan origination fees

Loan origination fees represent compensation to the Company for the origination or purchase of loans. Loan origination fees are earned and recognized upon funding or purchase of the loan by the Company and are collected either at purchase from the correspondent seller or origination when paid by the borrower or upon sale of the loan when the origination fees are financed by the borrower.

Loan Servicing Fees

Loan servicing fees are received by the Company for servicing loans. Loan servicing activities include loan administration, collection, and default management, including the collection and remittance of loan payments; response to customer inquiries; accounting for principal and interest; holding custodial (impounded) funds for the payment of property taxes and insurance premiums; counseling delinquent mortgagors; and supervising foreclosures and REO property dispositions.

Loan servicing fee amounts are based upon fee schedules established by the applicable investor and depend on whether the Company is directly servicing loans, where it holds the MSR, is subservicing loans or MSRs held by a non-affiliate or the Advised Entities.

The Company's obligations under its loan servicing agreements are fulfilled as the Company services the loans. Fees are collected when the loan payments are received from the borrowers in the case of MSRs held by the Company or within 30 days of the applicable month-end from the Advised Entities.

Owned loan servicing fees are recorded net of Agency guarantee fees paid by the Company and are recognized when the loan payments are received from the borrowers. Loan servicing fees relating to loans serviced for the Advised Entities are recognized in the month in which the loans are serviced.

Fulfillment Fees

Fulfillment fees represent fees the Company collects for services it performs on behalf of PMT in connection with the acquisition, packaging and sale of loans. Fulfillment fee amounts are based upon a negotiated fee schedule. The Company's obligation under the agreement is fulfilled when PMT issues a loan commitment, purchases a loan, or completes the sale or securitization of a loan it purchases. Fulfillment fee revenue is recognized in the month an interest rate lock commitment is issued, or the loan is purchased or sold by PMT. Fulfillment fees are generally collected within 30 days of the applicable activity by PMT.

Management fees

Management fees represent compensation to the Company for management services it provides to the Advised Entities. Management fees are based on PMT's shareholders' equity amounts and profitability in excess of specified thresholds. Management fees are recognized as services are provided and are paid to the Company on a quarterly basis within 30 days of the end of the quarter.

Stock-Based Compensation

The Company establishes the cost of its share-based awards at the awards' fair values at the grant date of the awards. The Company estimates the fair value of time-based restricted stock units and performance-based restricted stock units awarded with reference to the fair value of its underlying common stock and expected forfeiture rates on the date of the award. The Company estimates the fair value of its stock option awards with reference to the expected price volatility of its shares of common stock, expected dividend yield, expected forfeiture rates, and risk-free interest rate for the period that exercisable stock options are expected to be outstanding.

Compensation costs are fixed, except for performance-based restricted stock units, as of the award date. The cost of performance-based restricted stock units is adjusted in each reporting period after the grant for changes in expected performance attainment until the performance share units vest. The Company amortizes the cost of stock based awards to compensation expense over the vesting period using the graded vesting method. Expense relating to awards is included in *Compensation* expense in the consolidated statements of income.

Income Taxes

The Company is subject to federal and state income taxes. Income taxes are provided using the asset and liability method. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between financial statement carrying amounts of existing assets and liabilities and their respective tax bases. Deferred tax assets and liabilities are measured using the enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled.

The effect on deferred taxes of a change in tax rates is recognized in income in the period in which the change occurs. A valuation allowance is established if, in management's judgment, it is not more likely than not that a deferred tax asset will be realized.

The Company recognizes tax benefits relating to its tax positions only if, in the opinion of management, it is more likely than not that the tax position will be sustained upon examination by the appropriate taxing authority. A tax position that meets this standard is recognized as the largest amount that is greater than 50% likely to be realized upon ultimate settlement with the appropriate taxing authority. The Company will classify any penalties and interest as a component of provision for income taxes.

As a result of the PennyMac recapitalization and reorganization in 2013, the Company expects to benefit from amortization and other tax deductions resulting from increases in the tax basis of PennyMac's assets from the exchange of PennyMac Class A units to the shares of the Company's common stock. Those deductions will be allocated to the Company and will be taken into account in reporting the Company's taxable income.

The Company assumed an agreement with certain of the former unitholders of PennyMac that provides for the additional payment by the Company to exchanging unitholders of PennyMac equal to 85% of the amount of cash savings, if any, in U.S. federal, state and local income tax that PFSI realizes due to (i) increases in tax basis resulting from exchanges of the then existing unitholders and (ii) certain other tax benefits related to PFSI entering into the tax receivable agreement, including tax benefits attributable to payments under the tax receivable agreement. Although the Company's Reorganization in 2018 eliminated the potential for unitholders to exchange any additional units subject to this tax receivable agreement, the Company continues to be subject to the agreement and provide payment when applicable for units exchanged before the Reorganization.

Recently Issued Accounting Pronouncements

Effective January 1, 2020, the Company adopted FASB Accounting Standards Update 2016-13, *Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments*, as amended ("ASU 2016-13"), using the modified retrospective approach. The adoption of ASU 2016-13 did not have any effect on the Company's consolidated statements of income, stockholder's equity or cash flows.

Note 4—Transactions with Affiliates

Transactions with PMT

Operating Activities

Mortgage Loan Production Activities and MSR Recapture

The Company sells newly originated loans to PMT under a mortgage loan purchase agreement. The Company has typically utilized the mortgage loan purchase agreement for the purpose of selling to PMT conforming balance non-government insured or guaranteed loans, as well as prime jumbo residential mortgage loans.

Through June 30, 2020, pursuant to the terms of an MSR recapture agreement by and between the Company and PMT, if the Company refinanced mortgage loans for which PMT previously held the MSRs, the Company was generally required to transfer and convey to PMT cash in an amount equal to 30% of the fair market value of the MSRs related to all such mortgage loans. On June 30, 2020, the MSR recapture agreement was amended and restated for a term of five years (the "2020 MSR Recapture Agreement").

Effective July 1, 2020, the 2020 MSR Recapture agreement changes the recapture fee payable by the Company to a tiered amount equal to:

- 40% of the fair market value of the MSRs relating to the recaptured loans subject to the first 15% of the "recapture rate";
- 35% of the fair market value of the MSRs relating to the recaptured loans subject to the "recapture rate" in excess of 15% and up to 30%;
- and
- 30% of the fair market value of the MSRs relating to the recaptured loans subject to the "recapture rate" in excess of 30%.

The "recapture rate" means, during each month, the ratio of (i) the aggregate unpaid principal balance of all recaptured loans, to (ii) the aggregate unpaid principal balance of all mortgage loans for which the Company held the MSRs and that were refinanced or otherwise paid off in such month. The Company has further agreed to allocate sufficient resources to target a recapture rate of 15%.

The Company provides PMT with certain mortgage banking services, including fulfillment and disposition-related services, for which it receives a monthly fulfillment fee.

Through June 30, 2020, pursuant to the terms of a mortgage banking services agreement, the monthly fulfillment fee was an amount equal to:

- a) no greater than the product of (i) 0.35% and (ii) the aggregate initial unpaid principal balance (the “Initial UPB”) of all mortgage loans purchased in such month, plus
- b) in the case of all mortgage loans other than mortgage loans sold to or securitized through Fannie Mae or Freddie Mac, no greater than the product of (i) 0.50% and (ii) the aggregate Initial UPB of all such mortgage loans sold and securitized in such month; provided, however, that no fulfillment fee was due or payable to the Company with respect to any mortgage loans underwritten to the Ginnie Mae MBS Guide.

PMT does not hold the Ginnie Mae approval required to issue Ginnie Mae MBS and act as a servicer. Accordingly, under the agreement, the Company purchases mortgage loans underwritten in accordance with the Ginnie Mae MBS Guide “as is” and without recourse of any kind from PMT at PMT’s cost less an administrative fee plus accrued interest and, through June 30, 2020, a sourcing fee ranging from two to three and one-half basis points, generally based on the average number of calendar days mortgage loans are held by PMT before being purchased by the Company. While the Company purchases these mortgage loans “as is” and without recourse of any kind from PMT, where the Company has a claim for repurchase, indemnity or otherwise against a correspondent seller, it is entitled, at its sole expense, to pursue any such claim through or in the name of PMT.

Effective July 1, 2020, the fulfillment fees and sourcing fees were revised as follows:

- Fulfillment fees shall not exceed the following:
 - (i) the number of loan commitments multiplied by a pull-through factor of either .99 or .80 depending on whether the loan commitments are subject to a “mandatory trade confirmation” or a “best efforts lock confirmation”, respectively, and then multiplied by \$585 for each pull-through adjusted loan commitment up to and including 16,500 per quarter and \$355 for each pull-through adjusted loan commitment in excess of 16,500 per quarter, plus
 - (ii) \$315 multiplied by the number of purchased loans up to the and including 16,500 per quarter and \$195 multiplied by the number of purchased loans in excess of 16,500 per quarter, plus
 - (iii) \$750 multiplied by the number of all purchased loans that are sold or securitized to parties other than Fannie Mae and Freddie Mac; provided however, that no fulfillment fee shall be due or payable to PLS with respect to any Ginnie Mae loans.
- Sourcing fees charged to PLS range from one to two basis points, generally based on the average number of calendar days the loans are held by PMT before purchase by PLS.

Following is a summary of loan production activities, including MSR recapture, between the Company and PMT:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Net gains on loans held for sale at fair value:			
Net gains on loans held for sale to PMT (primarily cash)	\$ 81,295	\$ 190,416	\$ 69,359
Mortgage servicing rights and excess servicing spread recapture incurred	(30,614)	(7,051)	(4,776)
	\$ 50,681	\$ 183,365	\$ 64,583
Sale of loans held for sale to PMT	\$ 2,248,896	\$ 6,255,915	\$ 3,343,028
Tax service fees earned from PMT included in <i>Loan origination fees</i>	\$ 23,408	\$ 14,695	\$ 7,433
Fulfillment fee revenue	\$ 222,200	\$ 160,610	\$ 81,350
Sourcing fees included in cost of loans purchased from PMT	\$ 11,037	\$ 14,381	\$ 10,925
Unpaid principal balance of loans purchased from PMT	\$ 60,540,530	\$ 47,937,306	\$ 36,415,933

Loan Servicing

The Company and PMT have entered into a loan servicing agreement (the “Servicing Agreement”), pursuant to which the Company provides subservicing for PMT’s portfolio of MSRs and its portfolio of residential mortgage loans purchased with credit deterioration (distressed loans). The Servicing Agreement provides for servicing fees of per-loan monthly amounts based on the delinquency, bankruptcy and/or foreclosure status of the serviced loan or the REO. The Company is also entitled to customary ancillary income and market-based fees and charges relating to loans it services for PMT. These include boarding and deboarding fees, liquidation and disposition fees, assumption, modification and origination fees and a percentage of late charges.

Prime Servicing

- The base servicing fees for non-distressed loans are calculated through a monthly per-loan dollar amount, with the actual dollar amount for each loan based on whether the loan is a fixed-rate or adjustable-rate loan. The base servicing fee rates are \$7.50 per month for fixed-rate loans and \$8.50 per month for adjustable-rate loans.
- To the extent that non-distressed loans become delinquent, the Company receives an additional servicing fee per loan ranging from \$10 to \$55 per month based on the delinquency, bankruptcy and foreclosure status of the loan or \$75 per month if the underlying mortgaged property becomes REO. The Company is also entitled to customary ancillary income and certain market-based fees and charges, including boarding and deboarding fees, liquidation and disposition fees, assumption, modification and origination fees.
- Effective July 1, 2020, the Company receives certain fees for COVID-19 pandemic-related forbearance and modification activities provided for under the Coronavirus Aid, Relief, and Economic Security Act (“CARES Act”).

Special Servicing (Distressed loans)

- The base servicing fee rates for distressed loans range from \$30 per month for current loans up to \$85 per month for loans where the borrower has declared bankruptcy. The base servicing fee rate for REO is \$75 per month.

- Because PMT has a small number of employees and limited infrastructure, the Company is required to provide a range of services and activities significantly greater in scope than the services provided in connection with a customary servicing arrangement. For these services, the Company receives a supplemental servicing fee of \$25 per month for each distressed loan. The Company is entitled to reimbursement for all customary, good faith reasonable and necessary out-of-pocket expenses it incurs in the performance of its servicing obligations.
- The Company receives certain activity-based fees for distressed loans that are charged based on the achievement of certain events. These fees range from \$750 for a streamline modification to \$1,750 for a full modification or liquidation and \$500 for a deed-in-lieu of foreclosure. The Company is not entitled to receive more than one liquidation fee, reperformance fee or modification fee per loan in any 18-month period.
- To the extent the Company facilitates rentals of PMT's REO under its REO rental program, the Company receives an REO rental fee of \$30 per month per REO, an REO property lease renewal fee of \$100 per lease renewal, and a property management fee in an amount equal to the Company's cost if property management services and/or any related software costs are outsourced to a third-party property management firm or 9% of gross rental income if the Company provides property management services directly. The Company is also entitled to retain any tenant paid application fees and late rent fees and seek reimbursement for certain third-party vendor fees.
- Except as otherwise provided in the MSR recapture agreement, when the Company effects a refinancing of a loan on behalf of PMT and not through a third-party lender and the resulting loan is readily saleable, or the Company originates a loan to facilitate the disposition of a REO, the Company receives from PMT market-based fees and compensation consistent with pricing and terms the Company offers unaffiliated parties on a retail basis.
- The Company is entitled to retain any incentive payments made to it and to which it is entitled under the U.S. Department of Treasury's Home Affordable Modification Plan; provided, however, that with respect to any such incentive payments paid to the Company in connection with a loan modification for which PMT previously paid the Company a modification fee, the Company is required to reimburse PMT an amount equal to the incentive payments.

Following is a summary of loan servicing and property management fees earned from PMT:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Loan type serviced:			
Loans acquired for sale at fair value	\$ 2,067	\$ 1,772	\$ 1,037
Distressed loans	807	2,207	7,555
Mortgage servicing rights	64,307	44,818	33,453
	<u>\$ 67,181</u>	<u>\$ 48,797</u>	<u>\$ 42,045</u>
Property management fees received from PMT included in <i>Other</i> income	\$ —	\$ 314	\$ 442

On June 30, 2020, the Servicing Agreement was amended and restated for a term of five years (the “2020 Servicing Agreement”). The terms of the 2020 Servicing Agreement are substantially similar to those in the prior servicing agreement except that they now include the fees described above relating to COVID-19 pandemic-related forbearance and modification activities provided for under the CARES Act.

Investment Management Activities

The Company has a management agreement with PMT (“Management Agreement”), pursuant to which the Company oversees PMT’s business affairs in conformity with the investment policies that are approved and monitored by its board of trustees, for which PFSI collects a base management fee and may collect a performance incentive fee. The Management Agreement provides that:

- The base management fee is calculated quarterly and is equal to the sum of (i) 1.5% per year of PMT’s average shareholders’ equity up to \$2 billion, (ii) 1.375% per year of PMT’s average shareholders’ equity in excess of \$2 billion and up to \$5 billion, and (iii) 1.25% per year of PMT’s average shareholders’ equity in excess of \$5 billion.
- The performance incentive fee is calculated quarterly at a defined annualized percentage of the amount by which PMT’s “net income,” on a rolling four-quarter basis and before deducting the incentive fee, exceeds certain levels of return on “equity.”

The performance incentive fee is equal to the sum of: (a) 10% of the amount by which PMT’s “net income” for the quarter exceeds (i) an 8% return on equity plus the “high watermark,” up to (ii) a 12% return on PMT’s equity; plus (b) 15% of the amount by which PMT’s “net income” for the quarter exceeds (i) a 12% return on PMT’s equity plus the “high watermark,” up to (ii) a 16% return on PMT’s equity; plus (c) 20% of the amount by which PMT’s “net income” for the quarter exceeds a 16% return on equity plus the “high watermark.”

For the purpose of determining the amount of the performance incentive fee:

“Net income” is defined as net income or loss attributable to PMT’s common shares of beneficial interest computed in accordance with GAAP adjusted for certain other non-cash charges determined after discussions between the Company and PMT’s independent trustees and approval by a majority of PMT’s independent trustees.

“Equity” is the weighted average of the issue price per common share of all of PMT’s public offerings, multiplied by the weighted average number of common shares outstanding (including restricted share units) in the rolling four-quarter period.

The “high watermark” is the quarterly adjustment that reflects the amount by which the “net income” (stated as a percentage of return on “equity”) in that quarter exceeds or falls short of the lesser of 8% and the average Fannie Mae 30-year MBS yield (the “Target Yield”) for the four quarters then ended. If the “net income” is lower than the Target Yield, the high watermark is increased by the difference. If the “net income” is higher than the Target Yield, the high watermark is reduced by the difference. Each time a performance incentive fee is earned, the high watermark returns to zero. As a result, the threshold amounts required for the Company to earn a performance incentive fee are adjusted cumulatively based on the performance of PMT’s “net income” over (or under) the Target Yield, until the “net income” in excess of the Target Yield exceeds the then-current cumulative high watermark amount, and a performance incentive fee is earned.

The base management fee and the performance incentive fee are both receivable quarterly in arrears. The performance incentive fee may be paid in cash or a combination of cash and PMT’s common shares (subject to a limit of no more than 50% paid in common shares), at PMT’s option.

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In the event of termination of the Management Agreement between PMT and the Company, the Company may be entitled to a termination fee in certain circumstances. The termination fee is equal to three times the sum of (a) the average annual base management fee, and (b) the average annual performance incentive fee earned by the Company, in each case during the 24-month period immediately preceding the date of termination.

Following is a summary of the base management and performance incentive fees earned from PMT:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Base management	\$ 34,538	\$ 29,303	\$ 23,033
Performance incentive	—	7,189	1,432
	<u>\$ 34,538</u>	<u>\$ 36,492</u>	<u>\$ 24,465</u>

Expense Reimbursement

Under the Management Agreement, PMT reimburses the Company for its organizational and operating expenses, including third-party expenses, incurred on PMT's behalf, it being understood that the Company and its affiliates shall allocate a portion of their personnel's time to provide certain legal, tax and investor relations services for the direct benefit of PMT. With respect to the allocation of the Company's and its affiliates' personnel compensation, the Company was reimbursed \$120,000 per fiscal quarter through June 30, 2020.

PMT is also required to pay its pro rata portion of rent, telephone, utilities, office furniture, equipment, machinery and other office, internal and overhead expenses of the Company and its affiliates required for PMT's and its subsidiaries' operations. These expenses are allocated based on the ratio of PMT's proportion of gross assets compared to all remaining gross assets managed by the Company as calculated at each fiscal quarter end.

On June 30, 2020, the Management Agreement was amended and restated for a term of five years (the "2020 Management Agreement"). The terms of the 2020 Management Agreement are materially consistent with those of the prior management agreement, except that, effective July 1, 2020, PMT's reimbursement of PCM's and its affiliate's compensation expenses was increased from \$120,000 to \$165,000 per fiscal quarter, such amount to be reviewed annually and not preclude reimbursement for any other services performed by the Company or its affiliates.

The Company received reimbursements from PMT for expenses as follows:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Reimbursement of:			
Common overhead incurred by the Company	\$ 5,172	\$ 5,340	\$ 4,640
Compensation	570	480	480
Expenses incurred on PMT's behalf, net	22,583	4,362	1,113
	<u>\$ 28,325</u>	<u>\$ 10,182</u>	<u>\$ 6,233</u>
Payments and settlements during the year (1)	<u>\$ 378,162</u>	<u>\$ 177,116</u>	<u>\$ 71,943</u>

(1) Payments and settlements include payments for the operating, investing and financing activities summarized in this note and netting settlements made pursuant to master netting agreements between the Company and PMT.

Conditional Reimbursement of Underwriting Fees

In connection with its initial public offering of common shares of beneficial interest on August 4, 2009 ("IPO"), PMT conditionally agreed to reimburse the Company up to \$2.9 million for underwriting fees paid to the IPO underwriters by the Company on PMT's behalf. In the event a termination fee is payable to the Company under the Management Agreement, and the Company has not received the full amount of the reimbursements and payments under the reimbursement agreement, such amount will be paid in full. On February 1, 2019, the term of the reimbursement

agreement was extended to February 1, 2023. The Company received \$211,000, \$580,000 and \$69,000 in reimbursement from PMT during the years ended December 31, 2020, 2019, and 2018, respectively.

Investing Activities

Master Repurchase Agreement

On December 19, 2016, the Company, through PLS, entered into a master repurchase agreement with one of PMT's wholly-owned subsidiaries, PennyMac Holdings, LLC ("PMH") (the "PMH Repurchase Agreement"), pursuant to which PMH may borrow from the Company for the purpose of financing PMH's participation certificates representing beneficial ownership in ESS under the Spread Acquisition Agreement. PLS then re-pledges such participation certificates to PNM MAC GMSR ISSUER TRUST (the "Issuer Trust") under a master repurchase agreement by and among PLS, the Issuer Trust and PennyMac, as guarantor (the "PC Repurchase Agreement"). The Issuer Trust was formed for the purpose of allowing PLS to finance MSRs and ESS relating to such MSRs (the "GNMA MSR Facility").

In connection with the GNMA MSR Facility, PLS pledges and/or sells to the Issuer Trust participation certificates representing beneficial interests in MSRs and ESS pursuant to the terms of the PC Repurchase Agreement. In return, the Issuer Trust (a) has issued to PLS, pursuant to the terms of an indenture, the Series 2016-MSRVF1 Variable Funding Note, dated December 19, 2016, known as the "PNMAC GMSR ISSUER TRUST MSR Collateralized Notes, Series 2016-MSRVF1" (the "VFN"), and (b) has issued and may, from time to time pursuant to the terms of any supplemental indenture, issue to institutional investors additional term notes ("Term Notes"), in each case secured on a pari passu basis by the participation certificates relating to the MSRs and ESS. The maximum principal balance of the VFN is \$1,000,000,000.

The principal amount paid by PLS for the participation certificates under the PMH Repurchase Agreement is based upon a percentage of the market value of the underlying ESS. Upon PMH's repurchase of the participation certificates, PMH is required to repay PLS the principal amount relating thereto plus accrued interest (at a rate reflective of the current market and consistent with the weighted average note rate of the VFN and any outstanding Term Notes) to the date of such repurchase. PLS is then required to repay the Issuer Trust the corresponding amount under the PC Repurchase Agreement.

The Company holds an investment in PMT in the form of 75,000 common shares of beneficial interest.

Following is a summary of investing activities between the Company and PMT:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Assets purchased from PennyMac Mortgage Investment Trust under agreements to resell:			
Activity during the year:			
Net repayments of assets purchased from PMT under agreement to resell	\$ 26,650	\$ 23,513	\$ 13,103
Interest income	\$ 3,325	\$ 6,302	\$ 7,462
Balance at end of year	\$ 80,862	\$ 107,512	
Common shares of beneficial interest of PennyMac Mortgage Investment Trust:			
Activity during the year:			
Dividends earned from PennyMac Mortgage Investment Trust	\$ 114	\$ 141	\$ 140
Change in fair value of investment in common shares of PennyMac Mortgage Investment Trust	(567)	275	192
	<u>\$ (453)</u>	<u>\$ 416</u>	<u>\$ 332</u>
Balance at end of year:			
Fair value	\$ 1,105	\$ 1,672	
Number of shares	75	75	

Financing Activities

Spread Acquisition and MSR Servicing Agreements

On December 19, 2016, the Company amended and restated a master spread acquisition and MSR servicing agreement with PMT (the “Spread Acquisition Agreement”), pursuant to which the Company may sell to PMT, from time to time, the right to receive participation certificates representing beneficial ownership in ESS arising from Ginnie Mae MSRs acquired by the Company, in which case the Company generally would be required to service or subservice the related mortgage loans for Ginnie Mae. The primary purpose of the amendment and restatement was to facilitate the continued financing of the ESS owned by PMT in connection with the parties’ participation in the GNMA MSR Facility.

To the extent the Company refinances any of the mortgage loans relating to the ESS it has acquired, the Spread Acquisition Agreement also contains recapture provisions requiring that the Company transfer to PMT, at no cost, the ESS relating to a certain percentage of the unpaid principal balance of the newly originated mortgage loans. However, under the Spread Acquisition Agreement, in any month where the transferred ESS relating to newly originated Ginnie Mae mortgage loans is not equivalent to at least 90% of the product of the excess servicing fee rate and the unpaid principal balance of the refinanced mortgage loans, the Company is also required to transfer additional ESS or cash in the amount of such shortfall. Similarly, in any month where the transferred ESS relating to modified Ginnie Mae mortgage loans is not equivalent to at least 90% of the product of the excess servicing fee rate and the unpaid principal balance of the modified mortgage loans, the Spread Acquisition Agreement contains provisions that require the Company to transfer additional ESS or cash in the amount of such shortfall. To the extent the fair market value of the aggregate ESS to be transferred for the applicable month is less than \$200,000, the Company may, at its option, pay cash to PMT in an amount equal to such fair market value in lieu of transferring such ESS.

Following is a summary of financing activities between the Company and PMT:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Excess servicing spread financing:			
Balance at beginning of year	\$ 178,586	\$ 216,110	\$ 236,534
Issuance pursuant to recapture agreement	2,093	1,757	2,688
Accrual of interest	8,418	10,291	15,138
Repayment	(32,377)	(40,316)	(46,750)
Change in fair value	(24,970)	(9,256)	8,500
Balance at end of year	<u>\$ 131,750</u>	<u>\$ 178,586</u>	<u>\$ 216,110</u>
Recapture incurred pursuant to refinancings by the Company of mortgage loans subject to excess servicing spread financing included in <i>Net gains on loans held for sale at fair value</i>	\$ 2,241	\$ 1,726	\$ 2,584

Receivable from and Payable to PMT

Amounts due from and payable to PMT are summarized below:

	December 31, 2020	December 31, 2019
	(in thousands)	
Receivable from PMT:		
Allocated expenses and expenses incurred on PMT's behalf	\$ 38,132	\$ 3,724
Fulfillment fees	20,873	18,285
Correspondent production fees	13,065	10,606
Management fees	8,686	10,579
Servicing fees	6,213	4,659
Interest on assets purchased under agreements to resell	26	85
Conditional reimbursement	10	221
	<u>\$ 87,005</u>	<u>\$ 48,159</u>
Payable to PMT:		
Amounts advanced by PMT to fund its servicing advances	\$ 132,154	\$ 70,520
Mortgage servicing rights recapture payable	296	149
Other	7,856	2,611
	<u>\$ 140,306</u>	<u>\$ 73,280</u>

Exchanged Private National Mortgage Acceptance Company, LLC Unitholders

The Company has a tax receivable agreement with certain former owners of PennyMac that provides for the payment from time to time by the Company to PennyMac's exchanged unitholders of an amount equal to 85% of the amount of the net tax benefits, if any, that the Company is deemed to realize as a result of (i) increases in tax basis of PennyMac's assets resulting from exchanges of ownership interests in PennyMac and (ii) certain other tax benefits related to entering into the tax receivable agreement, including tax benefits attributable to payments under the tax receivable agreement.

The Reorganization eliminated the potential for unitholders to exchange any additional units subject to this tax receivable agreement. However, the Company continues to be subject to the agreement and will be required to make payments, to the extent any of the tax benefits specified above are deemed to be realized, under the tax receivable agreement to those certain prior owners of PennyMac who effected exchanges of ownership interests in PennyMac for the Company's common stock before the closing of the Reorganization in November 2018.

Following is a summary of activity in *Payable to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement*:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Activity during the year:			
Liability resulting from unit exchanges	\$ —	\$ —	\$ 3,652
Payments under tax receivable agreement	\$ 10,713	\$ —	\$ —
Repricing of liability	\$ (280)	\$ (379)	\$ (1,126)
Balance at end of year	\$ 35,165	\$ 46,158	\$ 46,537

Donor Advised Fund

During the year ended December 31, 2020, the Company contributed \$2.3 million to a donor advised fund for the purpose of making charitable contributions.

Note 5—Loan Sales and Servicing Activities

The Company originates or purchases and sells mortgage loans in the secondary mortgage market without recourse for credit losses. However, the Company maintains continuing involvement with the loans in the form of servicing arrangements and the liability under representations and warranties it makes to purchasers and insurers of the loans.

The following table summarizes cash flows between the Company and transferees as a result of the sale of loans in transactions where the Company maintains continuing involvement as servicer with the loans as servicer:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Cash flows:			
Sales proceeds	\$ 102,840,312	\$ 61,214,102	\$ 44,557,560
Servicing fees received (1)	\$ 678,142	\$ 587,919	\$ 488,483
Net servicing advances	\$ 235,240	\$ 36,277	\$ 28,557

(1) Net of guarantee fees paid to the Agencies

The following table summarizes unpaid principal balance (the “UPB”) of the loans sold by the Company in which it maintains continuing involvement:

	December 31,	
	2020	2019
	(in thousands)	
Unpaid principal balance of loans outstanding	\$ 199,655,361	\$ 168,842,011
Delinquencies (1):		
30-89 days	\$ 6,041,366	\$ 7,947,560
90 days or more:		
Not in foreclosure	\$ 17,799,621	\$ 3,237,563
In foreclosure	\$ 581,683	\$ 888,136
Foreclosed	\$ 10,893	\$ 15,387
Bankruptcy	\$ 1,230,696	\$ 1,343,816

(1) At December 31, 2020, includes loans subject to forbearance agreements under the CARES Act with UPB totaling \$2.6 billion in the 30-89 days delinquent category and \$12.2 billion in the 90 or more days delinquent not in foreclosure category.

The following tables summarize the UPB of the Company's loan servicing portfolio:

	December 31, 2020		
	Servicing rights owned	Contract servicing and subservicing (in thousands)	Total loans serviced
Investor:			
Non-affiliated entities:			
Originated	\$ 199,655,361	\$ —	\$ 199,655,361
Purchased	41,612,940	—	41,612,940
	241,268,301	—	241,268,301
PennyMac Mortgage Investment Trust	—	174,418,591	174,418,591
Loans held for sale	11,063,938	—	11,063,938
	<u>\$ 252,332,239</u>	<u>\$ 174,418,591</u>	<u>\$ 426,750,830</u>
Delinquent loans (1):			
30 days	\$ 5,217,949	\$ 901,965	\$ 6,119,914
60 days	2,393,267	348,416	2,741,683
90 days or more:			
Not in foreclosure	21,781,226	4,473,217	26,254,443
In foreclosure	751,586	33,312	784,898
Foreclosed	12,938	37,131	50,069
	<u>\$ 30,156,966</u>	<u>\$ 5,794,041</u>	<u>\$ 35,951,007</u>
Bankruptcy	\$ 1,698,418	\$ 153,179	\$ 1,851,597
Delinquent loans in COVID-19 pandemic-related forbearance:			
30 days	\$ 1,745,257	\$ 334,498	\$ 2,079,755
60 days	1,479,753	259,019	1,738,772
90 days or more not in foreclosure	14,904,052	3,690,505	18,594,557
	<u>\$ 18,129,062</u>	<u>\$ 4,284,022</u>	<u>\$ 22,413,084</u>
Custodial funds managed by the Company (2)	\$ 10,660,517	\$ 6,086,725	\$ 16,747,242

(1) Includes delinquent loans in COVID-19 pandemic-related forbearance plans that were requested by borrowers seeking payment relief in accordance with the CARES Act.

(2) Custodial funds are cash accounts holding funds on behalf of borrowers and investors relating to loans serviced under servicing agreements and are not recorded on the Company's consolidated balance sheets. The Company earns placement fees on certain of the custodial funds it manages on behalf of the loans' investors. Placement fees are included in *Interest income* in the Company's consolidated statements of income.

	December 31, 2019		
	Servicing rights owned	Contract servicing and subservicing (in thousands)	Total loans serviced
Investor:			
Non-affiliated entities:			
Originated	\$ 168,842,011	\$ —	\$ 168,842,011
Purchased	59,703,547	—	59,703,547
	228,545,558	—	228,545,558
PennyMac Mortgage Investment Trust	—	135,414,668	135,414,668
Loans held for sale	4,724,006	—	4,724,006
	<u>\$ 233,269,564</u>	<u>\$ 135,414,668</u>	<u>\$ 368,684,232</u>
Delinquent loans:			
30 days	\$ 7,987,132	\$ 857,660	\$ 8,844,792
60 days	2,490,797	172,263	2,663,060
90 days or more:			
Not in foreclosure	4,070,482	274,592	4,345,074
In foreclosure	1,113,806	68,331	1,182,137
Foreclosed	18,315	89,421	107,736
	<u>\$ 15,680,532</u>	<u>\$ 1,462,267</u>	<u>\$ 17,142,799</u>
Bankruptcy	\$ 1,898,367	\$ 136,818	\$ 2,035,185
Custodial funds managed by the Company (1)	\$ 6,412,291	\$ 2,529,984	\$ 8,942,275

(1) Custodial funds are cash accounts holding funds on behalf of borrowers and investors relating to loans serviced under servicing agreements and are not recorded on the Company's consolidated balance sheets. The Company earns placement fees on certain of the custodial funds it manages on behalf of the loans' investors. Placement fees are included in *Interest income* in the Company's consolidated statements of income.

Following is a summary of the geographical distribution of loans included in the Company's servicing portfolio for the top five and all other states as measured by UPB:

State	December 31, 2020	December 31, 2019
	(in thousands)	
California	\$ 60,591,363	\$ 57,311,867
Florida	35,360,190	28,940,696
Texas	34,591,419	27,909,821
Virginia	26,209,701	22,115,619
Maryland	19,974,809	16,829,320
All other states	250,023,348	215,576,909
	<u>\$ 426,750,830</u>	<u>\$ 368,684,232</u>

Note 6—Fair Value

Most of the Company's assets and certain of its liabilities are measured at or based on their fair values. The application of fair value may be on a recurring or nonrecurring basis depending on the accounting principles applicable to the specific asset or liability and whether the Company has elected to carry the item at its fair value as discussed in the following paragraphs.

Fair Value Accounting Elections

The Company identified all of its MSRs, MSLs and all of its non-cash financial assets other than *Assets purchased from PennyMac Mortgage Investment Trust under agreements to resell pledged to creditors*, to be accounted for at fair value so changes in fair value will be reflected in income as they occur and more timely reflect the results of the Company's performance. The Company has also identified its ESS financing to be accounted for at fair value as a means of hedging the related MSRs' fair value risk.

Assets and Liabilities Measured at Fair Value on a Recurring Basis

Following is a summary of assets and liabilities that are measured at fair value on a recurring basis:

	December 31, 2020			
	Level 1	Level 2	Level 3	Total
	(in thousands)			
Assets:				
Short-term investments	\$ 15,217	\$ —	\$ —	\$ 15,217
Loans held for sale at fair value	—	6,941,231	4,675,169	11,616,400
Derivative assets:				
Interest rate lock commitments	—	—	679,961	679,961
Forward purchase contracts	—	133,267	—	133,267
Forward sales contracts	—	1,451	—	1,451
MBS put options	—	14,302	—	14,302
Swaptions	—	11,939	—	11,939
Put options on interest rate futures purchase contracts	5,520	—	—	5,520
Call options on interest rate futures purchase contracts	1,391	—	—	1,391
Total derivative assets before netting	6,911	160,959	679,961	847,831
Netting	—	—	—	(136,593)
Total derivative assets	6,911	160,959	679,961	711,238
Mortgage servicing rights at fair value	—	—	2,581,174	2,581,174
Investment in PennyMac Mortgage Investment Trust	1,105	—	—	1,105
	<u>\$ 23,233</u>	<u>\$ 7,102,190</u>	<u>\$ 7,936,304</u>	<u>\$ 14,925,134</u>
Liabilities:				
Excess servicing spread financing payable to PennyMac Mortgage Investment Trust at fair value	\$ —	\$ —	\$ 131,750	\$ 131,750
Derivative liabilities:				
Interest rate lock commitments	—	—	2,935	2,935
Forward purchase contracts	—	1,276	—	1,276
Forward sales contracts	—	251,149	—	251,149
Total derivative liabilities before netting	—	252,425	2,935	255,360
Netting	—	—	—	(212,722)
Total derivative liabilities	—	252,425	2,935	42,638
Mortgage servicing liabilities at fair value	—	—	45,324	45,324
	<u>\$ —</u>	<u>\$ 252,425</u>	<u>\$ 180,009</u>	<u>\$ 219,712</u>

	December 31, 2019			
	Level 1	Level 2	Level 3	Total
	(in thousands)			
Assets:				
Short-term investments	\$ 74,611	\$ —	\$ —	\$ 74,611
Loans held for sale at fair value	—	4,529,075	383,878	4,912,953
Derivative assets:				
Interest rate lock commitments	—	—	138,511	138,511
Repurchase agreement derivatives	—	—	8,187	8,187
Forward purchase contracts	—	12,364	—	12,364
Forward sales contracts	—	17,097	—	17,097
MBS put options	—	3,415	—	3,415
Swaptions	—	2,409	—	2,409
Put options on interest rate futures purchase contracts	3,945	—	—	3,945
Call options on interest rate futures purchase contracts	1,469	—	—	1,469
Total derivative assets before netting	5,414	35,285	146,698	187,397
Netting	—	—	—	(27,711)
Total derivative assets	5,414	35,285	146,698	159,686
Mortgage servicing rights at fair value	—	—	2,926,790	2,926,790
Investment in PennyMac Mortgage Investment Trust	1,672	—	—	1,672
	<u>\$ 81,697</u>	<u>\$ 4,564,360</u>	<u>\$ 3,457,366</u>	<u>\$ 8,075,712</u>
Liabilities:				
Excess servicing spread financing payable to PennyMac Mortgage Investment Trust at fair value	\$ —	\$ —	\$ 178,586	\$ 178,586
Derivative liabilities:				
Interest rate lock commitments	—	—	1,861	1,861
Forward purchase contracts	—	19,040	—	19,040
Forward sales contracts	—	18,045	—	18,045
Total derivative liabilities before netting	—	37,085	1,861	38,946
Netting	—	—	—	(16,616)
Total derivative liabilities	—	37,085	1,861	22,330
Mortgage servicing liabilities at fair value	—	—	29,140	29,140
	<u>\$ —</u>	<u>\$ 37,085</u>	<u>\$ 209,587</u>	<u>\$ 230,056</u>

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As shown above, certain of the Company's loans held for sale, IRLCs, repurchase agreement derivatives, MSRs, ESS and MSLs are measured using Level 3 fair value inputs. Following are roll forwards of assets and liabilities measured at fair value using "Level 3" fair value inputs at either the beginning or the end of the year presented for each of the three years ended December 31, 2020:

Assets	Year ended December 31, 2020				
	Loans held for sale	Net interest rate lock commitments (1)	Repurchase agreement derivatives	Mortgage servicing rights	Total
	(in thousands)				
Balance, December 31, 2019	\$ 383,878	\$ 136,650	\$ 8,187	\$ 2,926,790	\$ 3,455,505
Purchases and issuances, net	9,672,322	2,028,957	—	25,473	11,726,752
Capitalization of interest and advances	119,037	—	—	—	119,037
Sales and repayments	(2,381,493)	—	(8,270)	—	(2,389,763)
Mortgage servicing rights resulting from loan sales	—	—	—	1,138,045	1,138,045
Changes in fair value included in income arising from:					
Changes in instrument-specific credit risk	127,780	—	—	—	127,780
Other factors	—	1,254,235	83	(1,509,134)	(254,816)
	127,780	1,254,235	83	(1,509,134)	(127,036)
Transfers from Level 3 to Level 2	(3,246,282)	—	—	—	(3,246,282)
Transfers to real estate acquired in settlement of loans	(73)	—	—	—	(73)
Transfers of interest rate lock commitments to loans held for sale	—	(2,742,816)	—	—	(2,742,816)
Balance, December 31, 2020	\$ 4,675,169	\$ 677,026	\$ —	\$ 2,581,174	\$ 7,933,369
Changes in fair value recognized during the year relating to assets still held at December 31, 2020	\$ 153,474	\$ 677,026	\$ —	\$ (1,509,134)	\$ (678,634)

(1) For the purpose of this table, the IRLC asset and liability positions are shown net.

Liabilities	Year ended December 31, 2020		
	Excess servicing spread financing	Mortgage servicing liabilities	Total
	(in thousands)		
Balance, December 31, 2019	\$ 178,586	\$ 29,140	\$ 207,726
Issuance of excess servicing spread financing pursuant to a recapture agreement with PennyMac Mortgage Investment Trust	2,093	—	2,093
Accrual of interest	8,418	—	8,418
Repayments	(32,377)	—	(32,377)
Mortgage servicing liabilities resulting from loan sales	—	23,325	23,325
Changes in fair value included in income	(24,970)	(7,141)	(32,111)
Balance, December 31, 2020	\$ 131,750	\$ 45,324	\$ 177,074
Changes in fair value recognized during the year relating to liabilities still outstanding at December 31, 2020	\$ (24,970)	\$ (7,141)	\$ (32,111)

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Assets	Year ended December 31, 2019				
	Loans held for sale	Net interest rate lock commitments (1)	Repurchase agreement derivatives (in thousands)	Mortgage servicing rights	Total
Balance, December 31, 2018	\$ 260,008	\$ 49,338	\$ 26,770	\$ 2,820,612	\$ 3,156,728
Purchases and issuances, net	5,163,730	570,072	15,019	227,445	5,976,266
Capitalization of interest and advances	72,302	—	—	—	72,302
Sales and repayments	(3,456,856)	—	(31,993)	—	(3,488,849)
Mortgage servicing rights resulting from loan sales	—	—	—	884,876	884,876
Changes in fair value included in income arising from:					
Changes in instrument-specific credit risk	(6,332)	—	—	—	(6,332)
Other factors	—	331,067	(1,609)	(1,006,143)	(676,685)
	(6,332)	331,067	(1,609)	(1,006,143)	(683,017)
Transfers from Level 3 to Level 2	(1,646,554)	—	—	—	(1,646,554)
Transfers to real estate acquired in settlement of loans	(2,420)	—	—	—	(2,420)
Transfers of interest rate lock commitments to loans held for sale	—	(813,827)	—	—	(813,827)
Balance, December 31, 2019	\$ 383,878	\$ 136,650	\$ 8,187	\$ 2,926,790	\$ 3,455,505
Changes in fair value recognized during the year relating to assets still held at December 31, 2019	\$ (5,755)	\$ 136,650	\$ 165	\$ (1,006,143)	\$ (875,083)

(1) For the purpose of this table, the IRLC asset and liability positions are shown net.

Liabilities	Year ended December 31, 2019		
	Excess servicing spread financing	Mortgage servicing liabilities (in thousands)	Total
Balance, December 31, 2018	\$ 216,110	\$ 8,681	\$ 224,791
Issuance of excess servicing spread financing pursuant to a recapture agreement with PennyMac Mortgage Investment Trust	1,757	—	1,757
Accrual of interest	10,291	—	10,291
Repayments	(40,316)	—	(40,316)
Mortgage servicing liabilities resulting from loan sales	—	37,988	37,988
Changes in fair value included in income	(9,256)	(17,529)	(26,785)
Balance, December 31, 2019	\$ 178,586	\$ 29,140	\$ 207,726
Changes in fair value recognized during the year relating to liabilities still outstanding at December 31, 2019	\$ (9,256)	\$ (17,529)	\$ (26,785)

Assets	Year ended December 31, 2018				
	Loans held for sale	Net interest rate lock commitments (1)	Repurchase agreement derivatives (in thousands)	Mortgage servicing rights	Total
Balance, December 31, 2017	\$ 782,211	\$ 58,272	\$ 10,656	\$ 638,010	\$ 1,489,149
Reclassification of MSRs previously accounted for under the amortization method pursuant to adoption of the fair value method of accounting	—	—	—	1,482,426	1,482,426
	782,211	58,272	10,656	2,120,436	2,971,575
Purchases and issuances, net	2,972,042	195,974	49,725	237,803	3,455,544
Sales and repayments	(1,360,667)	—	(31,907)	—	(1,392,574)
Mortgage servicing rights resulting from loan sales	—	—	—	591,757	591,757
Changes in fair value included in income arising from:					
Changes in instrument-specific credit risk	158	—	—	—	158
Other factors	—	1,285	(1,704)	(129,384)	(129,803)
	158	1,285	(1,704)	(129,384)	(129,645)
Transfers from Level 3 to Level 2	(2,128,551)	—	—	—	(2,128,551)
Transfers to real estate acquired in settlement of loans	(5,185)	—	—	—	(5,185)
Transfers of interest rate lock commitments to loans held for sale	—	(206,193)	—	—	(206,193)
Balance, December 31, 2018	\$ 260,008	\$ 49,338	\$ 26,770	\$ 2,820,612	\$ 3,156,728
Changes in fair value recognized during the year relating to assets still held at December 31, 2018	\$ (263)	\$ 49,338	\$ —	\$ (129,384)	\$ (80,309)

(1) For the purpose of this table, the IRLC asset and liability positions are shown net.

Liabilities	Year ended December 31, 2018		
	Excess servicing spread financing	Mortgage servicing liabilities (in thousands)	Total
Balance, December 31, 2017	\$ 236,534	\$ 14,120	\$ 250,654
Issuance of excess servicing spread financing pursuant to a recapture agreement with PennyMac Mortgage Investment Trust	2,688	—	2,688
Accrual of interest	15,138	—	15,138
Repayments	(46,750)	—	(46,750)
Mortgage servicing liabilities resulting from loan sales	—	7,601	7,601
Changes in fair value included in income	8,500	(13,040)	(4,540)
Balance, December 31, 2018	\$ 216,110	\$ 8,681	\$ 224,791
Changes in fair value recognized during the year relating to liabilities still outstanding at December 31, 2018	\$ 8,500	\$ (13,040)	\$ (4,540)

The Company had transfers among the fair value levels arising from transfers of IRLCs to loans held for sale at fair value upon purchase or funding of the respective loans and from the return to salability in the active secondary market of certain loans held for sale.

Assets and Liabilities Measured at Fair Value under the Fair Value Option

Net changes in fair values included in income for assets and liabilities carried at fair value as a result of the Company's election of the fair value option by income statement line item are summarized below:

	Year ended December 31,								
	2020			2019			2018		
	Net gains on loans held for sale at fair value	Net loan servicing fees	Total	Net gains on loans held for sale at fair value	Net loan servicing fees	Total	Net gains on loans held for sale at fair value	Net loan servicing fees	Total
	(in thousands)								
Assets:									
Loans held for sale	\$ 2,899,314	\$ —	\$ 2,899,314	\$ 811,895	\$ —	\$ 811,895	\$ 188,611	\$ —	\$ 188,611
Mortgage servicing rights	—	(1,509,134)	(1,509,134)	—	(1,006,143)	(1,006,143)	—	(129,384)	(129,384)
	<u>\$ 2,899,314</u>	<u>\$ (1,509,134)</u>	<u>\$ 1,390,180</u>	<u>\$ 811,895</u>	<u>\$ (1,006,143)</u>	<u>\$ (194,248)</u>	<u>\$ 188,611</u>	<u>\$ (129,384)</u>	<u>\$ 59,227</u>
Liabilities:									
Excess servicing spread financing payable to PennyMac Mortgage Investment Trust	\$ —	\$ 24,970	\$ 24,970	\$ —	\$ 9,256	\$ 9,256	\$ —	\$ (8,500)	\$ (8,500)
Mortgage servicing liabilities	—	7,141	7,141	—	17,529	17,529	—	13,040	13,040
	<u>\$ —</u>	<u>\$ 32,111</u>	<u>\$ 32,111</u>	<u>\$ —</u>	<u>\$ 26,785</u>	<u>\$ 26,785</u>	<u>\$ —</u>	<u>\$ 4,540</u>	<u>\$ 4,540</u>

Following are the fair value and related principal amounts due upon maturity of assets accounted for under the fair value option:

	December 31, 2020			December 31, 2019		
	Fair value	Principal amount due upon maturity	Difference	Fair value	Principal amount due upon maturity	Difference
Loans held for sale			(in thousands)			
Current through 89 days delinquent	\$ 11,304,308	\$ 10,743,814	\$ 560,494	\$ 4,628,333	\$ 4,431,854	\$ 196,479
90 days or more delinquent:						
Not in foreclosure	275,419	280,595	(5,176)	236,650	241,958	(5,308)
In foreclosure	36,673	39,529	(2,856)	47,970	50,194	(2,224)
	<u>\$ 11,616,400</u>	<u>\$ 11,063,938</u>	<u>\$ 552,462</u>	<u>\$ 4,912,953</u>	<u>\$ 4,724,006</u>	<u>\$ 188,947</u>

Assets Measured at Fair Value on a Nonrecurring Basis

Following is a summary of assets that are measured at fair value on a nonrecurring basis:

Real estate acquired in settlement of loans	Level 1	Level 2	Level 3	Total
	(in thousands)			
December 31, 2020	\$ —	\$ —	\$ 1,450	\$ 1,450
December 31, 2019	\$ —	\$ —	\$ 9,850	\$ 9,850

The following table summarizes the total net losses on assets measured at fair values on a nonrecurring basis:

	Year ended December 31,		
	2020	2019	2018
		(in thousands)	
Real estate acquired in settlement of loans	\$ (814)	\$ (1,913)	\$ (75)

Fair Value of Financial Instruments Carried at Amortized Cost

The Company's *Assets purchased from PennyMac Mortgage Investment Trust under agreements to resell, Assets sold under agreements to repurchase, Mortgage loan participation purchase and sale agreements, Obligations under capital lease, Notes payable secured by mortgage servicing assets* and *Unsecured senior notes* are carried at amortized cost.

These assets and liabilities are classified as "Level 3" fair value items due to the Company's reliance on unobservable inputs to estimate their fair values. The Company has concluded that the fair values of these assets and liabilities other than the *Notes payable secured by mortgage servicing assets* and the *Unsecured senior notes* approximate their carrying values due to their short terms and/or variable interest rates.

The Company estimates the fair value of the *Notes payable secured by mortgage servicing assets* and the *Unsecured senior notes* based on non-affiliate broker indications of fair value. The fair value and carrying value of these notes are summarized below:

	December 31, 2020		December 31, 2019	
	Fair value	Carrying value	Fair value	Carrying value
			(in thousands)	
Notes payable secured by mortgage servicing assets	\$ 1,268,304	\$ 1,295,840	\$ 1,303,047	\$ 1,294,070
Unsecured senior notes	\$ 685,750	\$ 645,820	\$ —	\$ —

Valuation Governance

Most of the Company's financial assets, and all of its MSRs, ESS, derivative liabilities and MSLs, are carried at fair value with changes in fair value recognized in current period income. Certain of the Company's financial assets, derivative liabilities and all of its MSRs, ESS, and MSLs are "Level 3" fair value assets and liabilities which require use of unobservable inputs that are significant to the estimation of the items' fair values. Unobservable inputs reflect the Company's own judgments about the factors that market participants use in pricing an asset or liability, and are based on the best information available under the circumstances.

Due to the difficulty in estimating the fair values of "Level 3" fair value assets and liabilities, the Company has assigned the responsibility for estimating the fair value of these items to specialized staff and subjects the valuation process to significant senior management oversight. The Company's Financial Analysis and Valuation group (the "FAV group") is the Company's specialized staff responsible for estimating the fair values of "Level 3" fair value assets and liabilities other than IRLCs.

With respect to the non-IRLC “Level 3” valuations, the FAV group reports to the Company’s valuation committee, which oversees the valuations. The FAV group monitors the models used for valuation of the Company’s “Level 3” fair value assets and liabilities, including the models’ performance versus actual results, and reports those results to the Company’s valuation committee. The Company’s valuation committee includes the Company’s chief financial, investment and risk officers as well as other senior members of the Company’s finance, capital markets and risk management staffs.

The FAV group is responsible for reporting to the Company’s valuation committee on the changes in the valuation of the non-IRLC “Level 3” fair value assets and liabilities, including major factors affecting the valuation and any changes in model methods and inputs. To assess the reasonableness of its valuations, the FAV group presents an analysis of the effect on the valuation of changes to the significant inputs to the models.

The Company has assigned responsibility for developing the fair values of IRLCs to its Capital Markets Risk Management staff. The fair values developed by the Capital Markets Risk Management staff are reviewed by the Company’s Capital Markets Operations group.

Valuation Techniques and Inputs

Following is a description of the techniques and inputs used in estimating the fair values of “Level 2” and “Level 3” fair value assets and liabilities:

Loans Held for Sale

Most of the Company’s loans held for sale at fair value are saleable into active markets and are therefore categorized as “Level 2” fair value assets. The fair values of “Level 2” fair value loans are determined using their contracted selling price or quoted market price or market price equivalent.

Certain of the Company’s loans held for sale are not saleable into active markets and are therefore categorized as “Level 3” fair value assets. Loans held for sale categorized as “Level 3” fair value assets include:

- Government guaranteed or insured loans purchased by the Company from Ginnie Mae guaranteed pools in its loan servicing portfolio. The Company’s right to purchase government guaranteed or insured loans arises as the result of the loan being at least three months delinquent on the date of repurchase by the Company and provides an alternative to the Company’s obligation to continue advancing principal and interest at the coupon rate of the related Ginnie Mae security. Such repurchased loans may be resold to investors and thereafter may be repurchased to the extent they become eligible for resale into a new Ginnie Mae guaranteed security. Such eligibility occurs when the repurchased loans become current either through the borrower’s reperformance or through completion of a modification of the loan’s terms or after six months of timely payments following the completion of certain types of payment deferral programs.
- Loans that are not saleable into active markets due to identification of a defect by the Company or to the repurchase by the Company of a loan with an identified defect.
- Home equity lines of credit held for sale to PMT. At present, an active market with observable inputs that are significant to the estimation of fair value of home equity lines of credit does not exist.

The Company uses a discounted cash flow model to estimate the fair value of its “Level 3” fair value loans held for sale. The significant unobservable inputs used in the fair value measurement of the Company’s “Level 3” fair value loans held for sale are discount rates, home price projections, voluntary prepayment/resale and total prepayment speeds. Significant changes in any of those inputs in isolation could result in a significant change to the loans’ fair value measurement. Increases in home price projections are generally accompanied by an increase in voluntary prepayment speeds.

Following is a quantitative summary of key “Level 3” fair value inputs used in the valuation of loans held for sale at fair value:

	December 31, 2020	December 31, 2019
Fair value (in thousands)	\$ 4,675,169	\$ 383,878
Key inputs (1):		
Discount rate:		
Range	2.8% – 9.2%	3.0% – 9.2%
Weighted average	2.8%	3.0%
Twelve-month projected housing price index change:		
Range	2.7% – 3.5%	2.6% – 3.2%
Weighted average	3.0%	2.8%
Voluntary prepayment/resale speed (2):		
Range	0.4% – 31.3%	0.4% – 21.4%
Weighted average	21.9%	18.2%
Total prepayment speed (3):		
Range	0.5% – 42.9%	0.5% – 39.2%
Weighted average	29.2%	36.2%

- (1) Weighted average inputs are based on fair value of the “Level 3” loans.
- (2) Voluntary prepayment/resale speed is measured using Life Voluntary Conditional Prepayment Rate (“CPR”).
- (3) Total prepayment speed is measured using Life Total CPR.

Changes in fair value relating to loans held for sale are the result of changes in the loan’s instrument specific credit risk as indicated by successful modifications of the loan’s terms or changes in the respective loan’s delinquency status and performance history at year end from the later of the beginning of the year or acquisition date. Changes in fair value of loans held for sale are included in *Net gains on loans held for sale at fair value* in the Company’s consolidated statements of income.

Derivative Financial Instruments

Interest Rate Lock Commitments

IRLCs are categorized as a “Level 3” fair value asset or liability. The Company estimates the fair value of IRLCs based on quoted Agency MBS prices, its estimate of the fair value of the MSRs it expects to receive in the sale of the loans and the probability that the loans will fund or be purchased (the “pull-through rate”).

The significant unobservable inputs used in the fair value measurement of the Company’s IRLCs are the pull-through rate and the MSR component of the Company’s estimate of the fair value of the mortgage loans it has committed to purchase. Significant changes in the pull-through rate or the MSR component of the IRLCs, in isolation, could result in significant changes in the IRLCs’ fair value measurement. The financial effects of changes in these inputs are generally inversely correlated as increasing interest rates have a positive effect on the MSR component of IRLC fair value, but increase the pull-through rate for the loan principal and interest payment cash flow component, which has decreased in fair value. Changes in fair value of IRLCs are included in *Net gains on loans acquired for sale at fair value* in the consolidated statements of income.

Following is a quantitative summary of key unobservable inputs used in the valuation of IRLCs:

	December 31, 2020	December 31, 2019
Fair value (in thousands) (1)	\$ 677,026	\$ 136,650
Key inputs (2):		
Pull-through rate:		
Range	10.1% – 100%	12.2% – 100%
Weighted average	82.7%	86.5%
Mortgage servicing rights value expressed as:		
Servicing fee multiple:		
Range	0.7 – 5.3	1.4 – 5.7
Weighted average	3.6	4.2
Percentage of loan commitment amount		
Range	0.1% – 2.6%	0.3% – 2.8%
Weighted average	1.2%	1.6%

(1) For purposes of this table, the IRLC assets and liability positions are shown net.

(2) Weighted average inputs are based on the committed amounts.

Hedging Derivatives

Fair value of hedging derivative financial instruments that are actively traded on exchanges are categorized by the Company as “Level 1” fair value assets and liabilities. Fair value of hedging derivative financial instruments based on observable MBS prices or interest rate volatilities in the MBS market are categorized as “Level 2” fair value assets and liabilities.

Changes in the fair value of hedging derivatives are included in *Net gains on loans acquired for sale at fair value*, or *Net loan servicing fees – Hedging results*, as applicable, in the consolidated statements of income.

Repurchase Agreement Derivatives

Through August 21, 2019, the Company had a master repurchase agreement that included incentives for financing loans approved for satisfying certain consumer relief characteristics. These incentives are classified for financial reporting purposes as embedded derivatives and are separated for reporting purposes from the master repurchase agreement. The Company classifies repurchase agreement derivatives as “Level 3” fair value assets. The significant unobservable inputs into the valuation of repurchase agreement derivative assets are the discount rate and the Company’s expected approval rate of the loans financed under the master repurchase agreement. The resulting ratio included in the Company’s fair value estimate was 99.0% at December 31, 2019.

Mortgage Servicing Rights

MSRs are categorized as “Level 3” fair value assets. The Company uses a discounted cash flow approach to estimate the fair value of MSRs. The key inputs used in the estimation of the fair value of MSRs include the applicable pricing spread (discount rate), prepayment speed of the underlying mortgage loans, and annual per-loan cost to service loans, all of which are unobservable. Significant changes to any of those inputs in isolation could result in a significant change in the MSR fair value measurement. Changes in these key inputs are not necessarily directly related. Recognized changes in the fair value of MSRs are included in *Net loan servicing fees—Change in fair value of mortgage servicing rights and mortgage servicing liabilities* in the consolidated statements of income.

Following are the key inputs, used in determining the fair value of MSRs at the time of initial recognition, excluding MSR purchases:

	Year ended December 31,		
	2020	2019	2018
(Amount recognized and unpaid principal balance of underlying mortgage loans amounts in thousands)			
MSR and pool characteristics:			
Amount recognized	\$1,138,045	\$884,876	\$591,757
Unpaid principal balance of underlying mortgage loans	\$96,571,835	\$56,038,354	\$42,008,585
Weighted average servicing fee rate (in basis points)	35	41	36
Key inputs (1):			
Pricing spread (2):			
Range	6.8% – 18.1%	5.5% – 16.2%	5.8% – 16.4%
Weighted average	9.4%	8.5%	9.9%
Annual total prepayment speed (3):			
Range	7.2% – 49.8%	7.7% – 32.8%	3.9% – 61.8%
Weighted average	11.9%	13.5%	10.8%
Equivalent average life (in years):			
Range	1.5 – 9.1	2.6 – 8.2	0.5 – 11.6
Weighted average	6.7	6.2	7.3
Annual per-loan cost of servicing:			
Range	\$77 – \$117	\$78 – \$100	\$78 – \$99
Weighted average	\$102	\$97	\$91

- (1) Weighted average inputs are based on UPB of the underlying mortgage loans.
- (2) Pricing spread represents a margin that is applied to a reference interest rate's forward rate curve to develop periodic discount rates. The Company applies a pricing spread to the United States Dollar London Interbank Offered Rate ("LIBOR")/swap curve for purposes of discounting cash flows relating to MSRs.
- (3) Annual total prepayment speed is measured using Life Total CPR. Equivalent average life is provided for informational purposes.

Following is a quantitative summary of key inputs used in the valuation of the Company's MSRs and the effect on the fair value from adverse changes in those inputs:

	December 31, 2020	December 31, 2019
	(Fair value, unpaid principal balance of underlying loans and effect on fair value amounts in thousands)	
Fair value	\$ 2,581,174	\$ 2,926,790
Pool characteristics:		
Unpaid principal balance of underlying loans	\$ 238,410,809	\$ 225,787,103
Weighted average note interest rate	3.6%	3.9%
Weighted average servicing fee rate (in basis points)	35	35
Key inputs (1):		
Pricing spread (2):		
Range	8.0% – 17.6%	6.8% – 15.8%
Weighted average	10.1%	8.5%
Effect on fair value of:		
5% adverse change	(\$46,356)	(\$44,561)
10% adverse change	(\$90,936)	(\$87,734)
20% adverse change	(\$175,137)	(\$170,155)
Annual total prepayment speed (3):		
Range	10.1% – 32.9%	9.3% – 40.9%
Weighted average	13.7%	12.7%
Equivalent average life (in years):		
Range	2.3 – 7.7	1.4 – 7.4
Weighted average	6.0	6.1
Effect on fair value of:		
5% adverse change	(\$66,536)	(\$63,569)
10% adverse change	(\$130,253)	(\$124,411)
20% adverse change	(\$249,843)	(\$238,549)
Annual per-loan cost of servicing:		
Range	\$79 – \$117	\$77 – \$100
Weighted average	\$107	\$97
Effect on fair value of:		
5% adverse change	(\$25,482)	(\$24,516)
10% adverse change	(\$50,964)	(\$49,032)
20% adverse change	(\$101,929)	(\$98,065)

(1) Weighted average inputs are based on UPB of the underlying mortgage loans.

(2) The Company applies a pricing spread to the United States Dollar LIBOR/swap curve for purposes of discounting cash flows relating to MSRs.

(3) Annual total prepayment speed is measured using Life Total CPR. Equivalent average life is provided for informational purposes.

The preceding sensitivity analyses are limited in that they were performed as of a particular date; only contemplate the movements in the indicated inputs; do not incorporate changes to other inputs; are subject to the accuracy of the models and inputs used; and do not incorporate other factors that would affect the Company's overall financial performance in such events, including operational adjustments made by management to account for changing circumstances. For these reasons, the preceding analysis should not be viewed as earnings forecasts.

Excess Servicing Spread Financing at Fair Value

ESS is categorized as a "Level 3" fair value liability. Because the ESS is a claim to a portion of the cash flows from MSRs, the fair value measurement of the ESS is similar to that of MSRs. The Company uses the same discounted cash flow approach to measuring the ESS as it uses to measure MSRs except that certain inputs relating to the cost to service the mortgage loans underlying the MSRs and certain ancillary income are not included as these cash flows do not accrue to the holder of the ESS.

The key inputs used in the estimation of ESS fair value include pricing spread (discount rate) and prepayment speed. Significant changes to either of those inputs in isolation could result in a significant change in the fair value of ESS. Changes in these key inputs are not necessarily directly related.

ESS is generally subject to fair value increases when mortgage interest rates increase. Increasing mortgage interest rates normally discourage mortgage refinancing activity. Decreased refinancing activity increases the life of the mortgage loans underlying the ESS, thereby increasing its fair value. Changes in the fair value of ESS are included in *Net loan servicing fees—Change in fair value of excess servicing spread payable to PennyMac Mortgage Investment Trust*.

Following are the key inputs used in determining the fair value of ESS financing:

	December 31, 2020	December 31, 2019
Fair value (in thousands)	\$ 131,750	\$ 178,586
Pool characteristics:		
Unpaid principal balance of underlying loans (in thousands)	\$ 15,833,050	\$ 19,904,571
Average servicing fee rate (in basis points)	34	34
Average excess servicing spread (in basis points)	19	19
Key inputs (1):		
Pricing spread (2):		
Range	4.9% – 5.3%	3.0% – 3.3%
Weighted average	5.1%	3.1%
Annual total prepayment speed (3):		
Range	9.6% – 18.3%	8.7% – 16.2%
Weighted average	11.7%	11.0%
Equivalent average life (in years):		
Range	2.3 – 6.6	2.7 – 7.2
Weighted average	5.8	6.1

- (1) Weighted average inputs are based on UPB of the loans.
- (2) The Company applies a pricing spread to the United States Dollar LIBOR/swap curve for purposes of discounting cash flows relating to ESS.
- (3) Annual total prepayment speed is measured using Life Total CPR. Equivalent average life is provided for informational purposes.

Mortgage Servicing Liabilities

MSLs are categorized as “Level 3” fair value liabilities. The Company uses a discounted cash flow approach to estimate the fair value of MSLs. This approach consists of projecting net servicing cash flows discounted at a rate that the Company believes market participants would use in their determinations of fair value. The key inputs used in the estimation of the fair value of MSLs include the applicable pricing spread (discount rate), the prepayment rates of the underlying mortgage loans, and the per-loan annual cost to service the respective mortgage loans. Changes in the fair value of MSLs are included in *Net servicing fees—Change in fair value of mortgage servicing rights and mortgage servicing liabilities* in the consolidated statements of income.

Following are the key inputs used in determining the fair value of MSLs:

	December 31,	
	2020	2019
Fair value (in thousands)	\$ 45,324	\$ 29,140
Pool characteristics:		
Unpaid principal balance of underlying loans (in thousands)	\$ 2,857,492	\$ 2,758,454
Servicing fee rate (in basis points)	25	25
Key inputs:		
Pricing spread (1)	7.6%	8.2%
Annual total prepayment speed (2)	33.3%	29.2%
Equivalent average life (in years)	3.2	3.9
Annual per-loan cost of servicing	\$ 305	\$ 300

(1) The Company applies a pricing spread to the United States Dollar LIBOR/swap curve for purposes of discounting cash flows relating to MSLs.

(2) Annual total prepayment speed is measured using Life Total CPR. Equivalent average life is provided for informational purposes.

Note 7—Loans Held for Sale at Fair Value

Loans held for sale at fair value include the following:

Loan type	December 31, 2020	December 31, 2019
	(in thousands)	
Government-insured or guaranteed	\$ 5,683,786	\$ 4,222,010
Conventional conforming	1,257,445	307,065
Purchased from Ginnie Mae pools serviced by the Company	4,661,378	374,121
Repurchased pursuant to representations and warranties	13,791	9,244
Home equity lines of credit	—	513
	<u>\$ 11,616,400</u>	<u>\$ 4,912,953</u>
Fair value of loans pledged to secure:		
Assets sold under agreements to repurchase	\$ 10,912,178	\$ 4,322,789
Mortgage loan participation purchase and sale agreements	545,500	523,349
	<u>\$ 11,457,678</u>	<u>\$ 4,846,138</u>

Note 8—Derivative Activities
Derivative Notional Amounts and Fair Value of Derivatives

The Company had the following derivative financial instruments recorded on its consolidated balance sheets:

Instrument	December 31, 2020			December 31, 2019		
	Notional amount (1)	Fair value		Notional amount (1)	Fair value	
		Derivative assets	Derivative liabilities		Derivative assets	Derivative liabilities
(in thousands)						
Not subject to master netting arrangements:						
Interest rate lock commitments	20,624,535	\$ 679,961	\$ 2,935	7,122,316	\$ 138,511	\$ 1,861
Repurchase agreement derivatives		—	—		8,187	—
Used for hedging purposes (2):						
Forward purchase contracts	31,689,543	133,267	1,276	13,618,361	12,364	19,040
Forward sales contracts	50,438,967	1,451	251,149	16,220,526	17,097	18,045
MBS put options	12,025,000	14,302	—	6,100,000	3,415	—
Swaption purchase contracts	3,375,000	11,939	—	1,750,000	2,409	—
Put options on interest rate futures purchase contracts	4,750,000	5,520	—	2,250,000	3,945	—
Call options on interest rate futures purchase contracts	850,000	1,391	—	750,000	1,469	—
Treasury futures purchase contracts	1,065,000	—	—	1,276,000	—	—
Treasury futures sale contracts	1,555,000	—	—	1,010,000	—	—
Interest rate swap futures purchase contracts	4,801,700	—	—	3,210,000	—	—
Interest rate swap futures sale contracts	711,700	—	—	—	—	—
Total derivatives before netting		847,831	255,360		187,397	38,946
Netting		(136,593)	(212,722)		(27,711)	(16,616)
		\$ 711,238	\$ 42,638		\$ 159,686	\$ 22,330
Collateral placed with (received from) derivative counterparties, net		\$ 76,129			\$ (11,095)	

(1) Notional amounts provide an indication of the volume of the Company's derivative activity.

(2) All of the derivatives used for hedging purposes are interest rate derivatives and are used as economic hedges.

Derivative Balances and Netting of Financial Instruments

The Company has elected to present net derivative asset and liability positions, and cash collateral obtained from (or posted to) its counterparties when subject to a master netting arrangement that is legally enforceable on all counterparties in the event of default. The derivatives that are not subject to a master netting arrangement are IRLCs and repurchase agreement derivatives.

Offsetting of Derivative Assets

Following are summaries of derivative assets and related netting amounts.

	December 31, 2020			December 31, 2019		
	Gross amount of recognized assets	Gross amount offset in the consolidated balance sheet	Net amount of assets in the consolidated balance sheet	Gross amount of recognized assets	Gross amount offset in the consolidated balance sheet	Net amount of assets in the consolidated balance sheet
	(in thousands)					
Derivatives not subject to master netting arrangements:						
Interest rate lock commitments	\$ 679,961	\$ —	\$ 679,961	\$ 138,511	\$ —	\$ 138,511
Repurchase agreement derivatives	—	—	—	8,187	—	8,187
	679,961	—	679,961	146,698	—	146,698
Derivatives subject to master netting arrangements:						
Forward purchase contracts	133,267	—	133,267	12,364	—	12,364
Forward sale contracts	1,451	—	1,451	17,097	—	17,097
MBS put options	14,302	—	14,302	3,415	—	3,415
Swaption purchase contracts	11,939	—	11,939	2,409	—	2,409
Put options on interest rate futures purchase contracts	5,520	—	5,520	3,945	—	3,945
Call options on interest rate futures purchase contracts	1,391	—	1,391	1,469	—	1,469
Netting	—	(136,593)	(136,593)	—	(27,711)	(27,711)
	167,870	(136,593)	31,277	40,699	(27,711)	12,988
	\$ 847,831	\$ (136,593)	\$ 711,238	\$ 187,397	\$ (27,711)	\$ 159,686

Derivative Assets, Financial Instruments, and Cash Collateral Held by Counterparty

The following table summarizes by significant counterparty the amount of derivative asset positions after considering master netting arrangements and financial instruments or cash pledged that do not meet the accounting guidance qualifying for netting.

	December 31, 2020			December 31, 2019		
	Gross amount not offset in the consolidated balance sheet			Gross amount not offset in the consolidated balance sheet		
	Net amount of assets in the consolidated balance sheet	Financial instruments	Cash collateral received	Net amount of assets in the consolidated balance sheet	Financial instruments	Cash collateral received
			Net amount			Net amount
			(in thousands)			
Interest rate lock commitments	\$ 679,961	\$ —	\$ —	\$ 679,961	\$ 138,511	\$ —
JPMorgan Chase Bank, N.A.	17,149	—	—	17,149	2,196	—
RJ O'Brien	6,910	—	—	6,910	5,414	—
Morgan Stanley Bank, N.A.	2,443	—	—	2,443	—	—
Citibank, N.A.	2,026	—	—	2,026	—	—
Nomura Securities International, Inc.	1,195	—	—	1,195	—	—
Deutsche Bank	—	—	—	—	9,138	—
Goldman Sachs	—	—	—	—	2,548	—
Mizuho Securities	—	—	—	—	1,597	—
Others	1,554	—	—	1,554	282	—
	<u>\$ 711,238</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 711,238</u>	<u>\$ 159,686</u>	<u>\$ —</u>

Offsetting of Derivative Liabilities and Financial Liabilities

Following is a summary of net derivative liabilities and assets sold under agreements to repurchase and related netting amounts. Assets sold under agreements to repurchase do not qualify for netting.

	December 31, 2020			December 31, 2019		
	Gross amount of recognized liabilities	Gross amount offset in the consolidated balance sheet	Net amount of liabilities in the consolidated balance sheet	Gross amount of recognized liabilities	Gross amount offset in the consolidated balance sheet	Net amount of liabilities in the consolidated balance sheet
			(in thousands)			
Derivatives not subject to master netting arrangements – Interest rate lock commitments	\$ 2,935	\$ —	\$ 2,935	\$ 1,861	\$ —	\$ 1,861
Derivatives subject to a master netting arrangement:						
Forward purchase contracts	1,276	—	1,276	19,040	—	19,040
Forward sale contracts	251,149	—	251,149	18,045	—	18,045
Netting	—	(212,722)	(212,722)	—	(16,616)	(16,616)
	252,425	(212,722)	39,703	37,085	(16,616)	20,469
Total derivatives	255,360	(212,722)	42,638	38,946	(16,616)	22,330
Assets sold under agreements to repurchase:						
Amount outstanding	9,663,995	—	9,663,995	4,141,680	—	4,141,680
Unamortized debt issuance cost, net	(9,198)	—	(9,198)	(627)	—	(627)
	9,654,797	—	9,654,797	4,141,053	—	4,141,053
	<u>\$ 9,910,157</u>	<u>\$ (212,722)</u>	<u>\$ 9,697,435</u>	<u>\$ 4,179,999</u>	<u>\$ (16,616)</u>	<u>\$ 4,163,383</u>

Derivative Liabilities, Financial Instruments, and Collateral Held by Counterparty

The following table summarizes by significant counterparty the amount of derivative liabilities and assets sold under agreements to repurchase after considering master netting arrangements and financial instruments or cash pledged that do not qualify under the accounting guidance for netting. All assets sold under agreements to repurchase are secured by sufficient collateral or have fair value that exceeds the liability amount recorded on the consolidated balance sheets.

	December 31, 2020				December 31, 2019			
	Net amount of liabilities in the consolidated balance sheet	Gross amounts not offset in the consolidated balance sheet	Cash collateral pledged	Net amount (in thousands)	Net amount of liabilities in the consolidated balance sheet	Gross amounts not offset in the consolidated balance sheet	Cash collateral pledged	Net amount
Interest rate lock commitments	\$ 2,935	\$ —	\$ —	\$ 2,935	\$ 1,861	\$ —	\$ —	\$ 1,861
Credit Suisse First Boston Mortgage Capital LLC	3,947,752	(3,943,149)	—	4,603	1,235,430	(1,235,430)	—	—
JPMorgan Chase Bank, N.A.	2,752,279	(2,752,279)	—	—	936,172	(936,172)	—	—
Bank of America, N.A.	634,523	(626,550)	—	7,973	379,400	(374,190)	—	5,210
Barclays Capital	596,729	(596,729)	—	—	—	—	—	—
Citibank, N.A.	505,625	(505,625)	—	—	655,831	(653,170)	—	2,661
Royal Bank of Canada	406,348	(406,348)	—	—	175,897	(175,897)	—	—
BNP Paribas	337,823	(336,545)	—	1,278	183,880	(183,880)	—	—
Morgan Stanley Bank, N.A.	331,546	(331,546)	—	—	582,941	(582,941)	—	—
Wells Fargo Bank, N.A.	169,085	(165,224)	—	3,861	11,212	—	—	11,212
Federal Home Loan Mortgage Corporation	12,928	—	—	12,928	—	—	—	—
Mizuho Securities	6,491	—	—	6,491	—	—	—	—
Daiwa Capital	1,856	—	—	1,856	—	—	—	—
Others	713	—	—	713	1,386	—	—	1,386
	<u>\$ 9,706,633</u>	<u>\$ (9,663,995)</u>	<u>\$ —</u>	<u>\$ 42,638</u>	<u>\$ 4,164,010</u>	<u>\$ (4,141,680)</u>	<u>\$ —</u>	<u>\$ 22,330</u>

Following are the gains (losses) recognized by the Company on derivative financial instruments and the income statement line items where such gains and losses are included:

Derivative activity	Income statement line	Year ended December 31,		
		2020	2019	2018
Interest rate lock commitments	Net gains on loans held for sale at fair value (1)	\$ 540,376	\$ 87,312	\$ (8,934)
Repurchase agreement derivatives	Interest expense	\$ 83	\$ (1,609)	\$ (1,704)
Hedged item:				
Interest rate lock commitments and loans held for sale	Net gains on loans held for sale at fair value	\$ (650,898)	\$ (157,806)	\$ 81,522
Mortgage servicing rights	Net loan servicing fees—Change in fair value of mortgage servicing rights and mortgage servicing liabilities	\$ 918,180	\$ 395,497	\$ (121,045)

(1) Represents net increase in fair value of IRLCs from the beginning to the end of the reporting period. Amounts recognized at the date of commitment and fair value changes recognized during the period until purchase of the underlying loans are shown in the rollforward of IRLCs for the period in Note 6 – *Fair Value – Assets and Liabilities Measured at Fair Value on a Recurring Basis*.

Servicing fees relating to MSRs and MSLs are recorded in *Net loan servicing fees—Loan servicing fees—From non-affiliates* on the consolidated statements of income; late charges and other ancillary fees relating to MSRs and MSLs are recorded in *Net loan servicing fees—Loan servicing fees—Other* on the Company's consolidated statements of income. Such amounts are summarized below:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Contractual servicing fees	\$ 814,646	\$ 730,165	\$ 585,101
Other fees:			
Late charges	36,339	43,350	27,940
Other	25,543	14,258	6,276
	<u>\$ 876,528</u>	<u>\$ 787,773</u>	<u>\$ 619,317</u>

Note 10—Leases

Substantially all of the Company's lease agreements are operating leases and relate to its office facilities. The Company's operating lease agreements have remaining terms ranging from less than one year to ten years; some of these operating lease agreements include options to extend the term for up to five years. None of the Company's operating lease agreements require the Company to make variable lease payments.

	Year ended December 31,	
	2020	2019
	(dollars in thousands)	
Lease expense:		
Operating leases	\$ 16,223	\$ 13,644
Short-term leases	1,153	821
Sublease income	—	(94)
Net lease expense included in <i>Occupancy and equipment</i>	<u>\$ 17,376</u>	<u>\$ 14,371</u>
Other information:		
Payments for operating leases	\$ 16,524	\$ 16,167
Operating lease right-of-use assets recognized:		
Upon adoption Accounting Standards Update 2016-02, <i>Leases (Topic 842)</i>	\$ —	\$ 58,713
New leases	14,128	24,535
	<u>\$ 14,128</u>	<u>\$ 83,248</u>
Period end weighted averages:		
Remaining lease term (in years)	6.3	7.1
Discount rate	4.1%	4.3%

Lease expense during the year ended December 31, 2018 was \$12.3 million.

The maturities of the Company's operating lease liabilities are summarized below:

Year ended December 31,	Operating leases (in thousands)
2021	\$ 19,557
2022	17,612
2023	17,456
2024	15,238
2025	14,546
Thereafter	26,356
Total lease payments	110,765
Less imputed interest	(16,572)
Operating lease liability	<u>\$ 94,193</u>

Note 11—Other Assets

Other assets are summarized below:

	December 31, 2020 (in thousands)	December 31, 2019 (in thousands)
Deposits securing <i>Assets sold under agreements to repurchase</i> and <i>Notes payable secured by mortgage servicing assets</i>	\$ 153,054	\$ —
Margin deposits	116,881	84,118
Capitalized software, net	81,434	63,130
Furniture, fixture, equipment and building improvements, net	32,217	30,480
Real estate acquired in settlement of loans	12,158	20,326
Other	296,425	135,503
	<u>\$ 692,169</u>	<u>\$ 333,557</u>
Deposits pledged to secure <i>Assets sold under agreements to repurchase</i> and <i>Notes payable secured by mortgage servicing assets</i>	\$ 153,054	\$ —
Assets pledged to secure <i>Obligation under capital lease</i> :		
Capitalized software, net	7,675	12,192
Furniture, fixture, equipment and building improvements, net	5,689	20,406
	<u>\$ 166,418</u>	<u>\$ 32,598</u>

Capitalized software is summarized below:

	December 31, 2020 (in thousands)	December 31, 2019 (in thousands)
Cost	\$ 111,156	\$ 74,325
Less: Accumulated amortization	(29,722)	(11,195)
	<u>\$ 81,434</u>	<u>\$ 63,130</u>

Software amortization expense totaled \$16.6 million, \$6.0 million and \$3.4 million for the years ended December 31, 2020, 2019 and 2018, respectively. The Company recorded \$13.1 million of impairment of capitalized software during the year ended December 31, 2020, which is included in *Technology* expense. No such impairment was recorded during the years ended December 31, 2019 and 2018.

Furniture, fixtures, equipment and building improvements is summarized below:

	December 31,	
	2020	2019
	(in thousands)	
Furniture, fixtures, equipment and building improvements	\$ 67,700	\$ 57,012
Less: Accumulated depreciation and amortization	(35,483)	(26,532)
	<u>\$ 32,217</u>	<u>\$ 30,480</u>

Depreciation and amortization expenses are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Depreciation and amortization expenses included in <i>Occupancy and equipment</i>	\$ 8,934	\$ 9,018	\$ 9,500

Note 12—Borrowings

The borrowing facilities described throughout this Note 12 contain various covenants, including financial covenants governing the Company's net worth, debt-to-equity ratio, profitability and liquidity. Management believes that the Company was in compliance with these covenants as of December 31, 2020.

Assets Sold Under Agreements to Repurchase

The Company has multiple borrowing facilities in the form of asset sales under agreements to repurchase. These borrowing facilities are secured by loans held for sale at fair value or participation certificates backed by MSRs. Eligible loans and participation certificates backed by MSRs are sold at advance rates based on the fair value (as determined by the lender) of the assets sold. Interest is charged at a rate based on the lender's overnight cost of funds rate or on LIBOR depending on the terms of the respective agreements. Loans and MSRs financed under these agreements may be re-pledged by the lenders.

On April 1, 2020, the Company issued a series of variable funding notes, the Series 2020-SPIADV1 Notes ("GMSR Servicing Advance Notes"), to be sold under agreement to repurchase pursuant to a Master Repurchase Agreement, dated as of April 1, 2020, with Credit Suisse First Boston Mortgage Capital LLC ("CSFB"), acting as administrative agent on behalf of Credit Suisse AG, Cayman Islands Branch ("CSCIB"), as buyer (the "GMSR Servicing Advances Repurchase Agreement").

The GMSR Servicing Advance Notes leverage the Company's GNMA MSR Facility to support a separately defined servicing advance facility within the existing structure and provide the Company enhanced ability to finance its servicing advance obligations to Ginnie Mae and its security holders as necessary. Specifically, the GMSR Servicing Advances Repurchase Agreement provides the Company with financing secured by its servicing advances to pay, in accordance with the Ginnie Mae requirements, in the event borrowers are delinquent: (i) regularly scheduled monthly principal and interest to mortgage-backed securities holders; (ii) taxes, homeowner's insurance, and other escrowed items; and (iii) other expenses related to servicing delinquent loans as specified by (A) state and federal laws and (B) government agencies, including the FHA, the VA, and the USDA.

The borrowing capacity under the GMSR Servicing Advances Repurchase Agreement, shared with VFN financing capacity, is \$600 million, all of which is committed and may be used to finance the servicing advances related to delinquent FHA, VA, and USDA loans, including delinquencies caused by forbearance in accordance with the CARES Act.

Assets sold under agreements to repurchase are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(dollars in thousands)		
Average balance of assets sold under agreements to repurchase	\$ 3,348,928	\$ 2,185,830	\$ 1,626,729
Weighted average interest rate (1)	2.91 %	3.74 %	3.87 %
Total interest expense (2)	\$ 112,778	\$ 74,215	\$ 22,463
Maximum daily amount outstanding	\$ 9,663,995	\$ 4,141,680	\$ 2,380,121

	December 31,	
	2020	2019
	(dollars in thousands)	
Carrying value:		
Unpaid principal balance	\$ 9,663,995	\$ 4,141,680
Unamortized debt issuance costs	(9,198)	(627)
	\$ 9,654,797	\$ 4,141,053
Weighted average interest rate	1.90 %	3.29 %
Available borrowing capacity (3):		
Committed	\$ 372,803	\$ 125,810
Uncommitted	2,163,202	782,510
	\$ 2,536,005	\$ 908,320
Fair value of assets securing repurchase agreements:		
Loans held for sale	\$ 10,912,178	\$ 4,322,789
Assets purchased from PennyMac Mortgage Investment Trust under agreements to resell	\$ 80,862	\$ 107,512
Servicing advances (4)	\$ 413,484	\$ 207,460
Mortgage servicing rights (4)	\$ 2,490,267	\$ 2,902,721
Deposits (4)	\$ 153,054	\$ —
Margin deposits placed with counterparties (5)	\$ 5,625	\$ 5,000

(1) Excludes the effect of amortization of net issuance costs totaling \$15.3 million for the year ended December 31, 2020 and the effect of amortization of net debt issuance premiums of \$7.5 million and \$40.5 million for the years ended December 31, 2019 and 2018, respectively.

(2) In 2017, PFSI entered into a master repurchase agreement that provided the Company with incentives to finance mortgage loans approved for satisfying certain consumer relief characteristics as provided in the agreement. The Company included \$14.7 million and \$48.1 million of such incentives as a reduction in *Interest expense* during the years ended December 31, 2019 and 2018, respectively. The master repurchase agreement expired on August 21, 2019.

(3) The amount the Company is able to borrow under asset repurchase agreements is tied to the fair value of unencumbered assets eligible to secure those agreements and the Company's ability to fund the agreements' margin requirements relating to the assets financed.

(4) Beneficial interests in the Ginnie Mae MSRs, servicing advances and deposits are pledged to the Issuer Trust and together serve as the collateral backing the VFN, GMSR Servicing Advance Notes and the 2018 Term Notes described in *Notes payable secured by mortgage servicing assets*. The VFN financing and the GMSR Servicing Advance Notes are included in *Assets sold under agreements to repurchase* and the 2018 Term Notes are included in *Notes payable secured by mortgage servicing assets* on the Company's consolidated balance sheets.

(5) Margin deposits are included in *Other* assets on the Company's consolidated balance sheets.

Following is a summary of maturities of outstanding advances under repurchase agreements by maturity date:

Remaining maturity at December 31, 2020	Unpaid principal balance (dollars in thousands)
Within 30 days	\$ 2,512,553
Over 30 to 90 days	4,973,242
Over 90 to 180 days	2,178,200
Total assets sold under agreements to repurchase	\$ 9,663,995
Weighted average maturity (in months)	3.3

The amount at risk (the fair value of the assets pledged plus the related margin deposit, less the amount advanced by the counterparty and interest payable) relating to the Company's assets sold under agreements to repurchase is summarized by counterparty below as of December 31, 2020:

Counterparty	Amount at risk (in thousands)	Weighted average maturity of advances	Facility maturity
Credit Suisse First Boston Mortgage Capital LLC (1)	\$ 1,484,391	April 23, 2021	April 23, 2021
Credit Suisse First Boston Mortgage Capital LLC	\$ 484,937	February 3, 2021	April 23, 2021
Bank of America, N.A.	\$ 334,772	January 31, 2021	March 11, 2021
JP Morgan Chase Bank, N.A.	\$ 136,523	June 4, 2021	September 30, 2022
JP Morgan Chase Bank, N.A.	\$ 117,491	February 28, 2021	April 7, 2021
Barclays Bank PLC	\$ 76,062	March 21, 2021	November 3, 2022
Royal Bank of Canada	\$ 41,107	April 17, 2021	December 14, 2021
Citibank, N.A.	\$ 35,370	March 17, 2021	August 3, 2021
Morgan Stanley Bank, N.A.	\$ 27,808	March 17, 2021	November 2, 2022
BNP Paribas	\$ 26,136	March 13, 2021	July 30, 2021
Wells Fargo Bank, N.A.	\$ 13,474	March 19, 2021	October 6, 2022

- (1) The calculation of the amount at risk includes the VFN and the 2018 Term Notes because beneficial interests in the Ginnie Mae MSRs and servicing advances are pledged to the Issuer Trust and together serve as the collateral backing the VFN and 2018 Term Notes described in *Notes payable secured by mortgage servicing assets* below. The VFN financing is included in *Assets sold under agreements to repurchase* and the 2018 Term Notes are included in *Notes payable secured by mortgage servicing assets* on the Company's consolidated balance sheets.

The Company is subject to margin calls during the period the agreements are outstanding and therefore may be required to repay a portion of the borrowings before the respective agreements mature if the fair value (as determined by the applicable lender) of the assets securing those agreements decreases.

Mortgage Loan Participation Purchase and Sale Agreements

Certain of the borrowing facilities secured by mortgage loans held for sale are in the form of mortgage loan participation purchase and sale agreements. Participation certificates, each of which represents an undivided beneficial ownership interest in mortgage loans that have been pooled with Fannie Mae, Freddie Mac or Ginnie Mae, are sold to a lender pending the securitization of the mortgage loans and sale of the resulting securities which generally occurs within 30 days. A commitment to sell the securities resulting from the pending securitization between the Company and a non-affiliate is also assigned to the lender at the time a participation certificate is sold.

The purchase price paid by the lender for each participation certificate is based on the trade price of the security, plus an amount of interest expected to accrue on the security to its anticipated delivery date, minus a present value adjustment, any related hedging costs and a holdback amount that is based on a percentage of the purchase price. The holdback amount is not required to be paid to the Company until the settlement of the security and its delivery to the lender.

The mortgage loan participation and sale agreements are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(dollars in thousands)		
Average balance	\$ 226,689	\$ 244,203	\$ 248,539
Weighted average interest rate (1)	1.88 %	3.42 %	3.29 %
Total interest expense	\$ 4,933	\$ 8,874	\$ 8,754
Maximum daily amount outstanding	\$ 540,977	\$ 548,038	\$ 722,611

(1) Excludes the effect of amortization of debt issuance costs totaling \$662,000, \$514,000 and \$588,000 for the years ended December 31, 2020, 2019 and 2018, respectively.

	December 31, 2020	December 31, 2019
	(dollars in thousands)	
Carrying value:		
Unpaid principal balance	\$ 521,477	\$ 497,948
Unamortized debt issuance costs	—	—
	<u>\$ 521,477</u>	<u>\$ 497,948</u>
Weighted average interest rate	1.39 %	3.05 %
Fair value of loans pledged to secure mortgage loan participation purchase and sale agreements	\$ 545,500	\$ 523,349

Obligations Under Capital Lease

The Company has a capital lease transaction secured by certain fixed assets and capitalized software. The capital lease matures on June 13, 2022 and bears interest at a spread over one-month LIBOR.

Obligations under capital lease are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(dollars in thousands)		
Average balance	\$ 16,224	\$ 17,021	\$ 13,498
Weighted average interest rate	2.62 %	4.07 %	3.96 %
Total interest expense	\$ 425	\$ 693	\$ 536
Maximum daily amount outstanding	\$ 20,810	\$ 28,295	\$ 20,971

	December 31, 2020	December 31, 2019
	(dollars in thousands)	
Unpaid principal balance	\$ 11,864	\$ 20,810
Weighted average interest rate	2.15 %	3.74 %
Assets pledged to secure obligations under capital lease:		
Capitalized software	\$ 7,675	\$ 12,192
Furniture, fixtures and equipment	\$ 5,689	\$ 20,406

Notes Payable Secured by Mortgage Servicing Assets

2018 Term Notes

The Company, through the Issuer Trust, issued the 2018-GT1 Notes and 2018-GT2 Notes (the “2018 Term Notes”) to qualified institutional buyers under Rule 144A of the Securities Act of 1933, as amended (the “Securities Act”). The 2018 Term Notes rank pari passu with each other and with the VFN issued by the Issuer Trust to PLS and are secured by certain participation certificates relating to Ginnie Mae MSRs and ESS that are financed pursuant to the GNMA MSR Facility. The 2018 Term Notes are included in *Notes payable secured by mortgage servicing assets*.

Following is a summary of the issued and outstanding 2018 Term Notes:

Issuance Date	Principal balance (in thousands)	Stated interest rate (1) (Annual)	Maturity date (2)
February 28, 2018 (the "2018-GT1 Notes")	\$ 650,000	2.85%	2/25/2023
August 10, 2018 (the "2018-GT2 Notes")	650,000	2.65%	8/25/2023
	<u>\$ 1,300,000</u>		

(1) Spread over one-month LIBOR.

(2) The 2018 Term Notes indentures provide the Company with the option to extend the maturity of the 2018 Term Notes by two years after the stated maturity.

MSR Note Payable

On February 1, 2018, the Company issued a note payable that is secured by Freddie Mac MSRs. Interest is charged at a rate based on LIBOR plus the applicable contract margin. The facility expires on April 23, 2021. The maximum amount that the Company may borrow under the note payable is \$600 million, less any amount outstanding under the agreement to repurchase pursuant to which the Company finances the VFN. The Company did not borrow under this note payable during the periods presented.

Notes payable are summarized below:

	Year ended December 31,		
	2020	2019	2018
	(dollars in thousands)		
Average balance	\$ 1,300,000	\$ 1,300,000	\$ 1,169,452
Weighted average interest rate (1)	3.42 %	5.08 %	5.29 %
Total interest expense	\$ 46,222	\$ 67,789	\$ 71,697
Maximum daily amount outstanding	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000

(1) Excludes the effect of amortization of debt issuance costs totaling \$1.8 million, \$1.8 million and \$9.8 million for the years ended December 31, 2020, 2019 and 2018, respectively.

	December 31,	
	2020	2019
	(dollars in thousands)	
Carrying value:		
Unpaid principal balance	\$ 1,300,000	\$ 1,300,000
Unamortized debt issuance costs	(4,160)	(5,930)
	<u>\$ 1,295,840</u>	<u>\$ 1,294,070</u>
Weighted average interest rate	2.93 %	4.46 %
Assets pledged to secure notes payable (1):		
Servicing advances	\$ 413,484	\$ 207,460
Mortgage servicing rights	\$ 2,421,326	\$ 2,861,442
Deposits	\$ 153,054	\$ —

(1) Beneficial interests in the Ginnie Mae MSRs, servicing advances and deposits are pledged to the Issuer Trust and together serve as the collateral backing the VFN, GMSR Servicing Advance Notes and the 2018 Term Notes. The VFN financing and the GMSR Servicing Advance Notes are included in *Assets sold under agreements to repurchase* and the 2018 Term Notes are included in *Notes payable secured by mortgage servicing assets* on the Company's consolidated balance sheet.

Unsecured Senior Notes

On September 29, 2020, the Company issued \$500 million in principal amount of 5.375% senior notes (the “Unsecured Notes”). On October 19, 2020, the Company issued an additional \$150 million in principal amount under a supplemental indenture governing the Unsecured Notes. Interest on the Unsecured Notes is payable semi-annually on April 15 and October 15, beginning on April 15, 2021. The Unsecured Notes mature on October 15, 2025.

Before October 15, 2022, the Company may, at its option and on any one or more occasions redeem:

- some or all of the Unsecured Notes at a price equal to 100% of the principal amount of the Unsecured Notes redeemed, plus accrued and unpaid interest to, but excluding, the redemption date, plus a make-whole premium; and
- up to 40% of the aggregate principal amount of the Unsecured Notes with an amount equal to or less than the net proceeds from certain equity offerings at a redemption price of 105.375% plus accrued and unpaid interest to, but excluding, the redemption date.

On or after October 15, 2022, the Company may, at its option and on any one or more occasions, redeem some or all of the Unsecured Notes at the applicable redemption prices set forth in the indenture under which the Unsecured Notes were issued, plus accrued and unpaid interest to, but excluding, the redemption date.

If a “change of control” (as defined in the indenture under which the Unsecured Notes were issued) occurs, the holders of the Unsecured Notes may require the Company to purchase for cash all or a portion of their Unsecured Notes at a purchase price equal to 101% of the principal amount of the Unsecured Notes, plus accrued and unpaid interest to, but excluding, the repurchase date.

The Unsecured Notes are senior unsecured obligations of the Company and will rank senior in right of payment to any future subordinated indebtedness of the Company, equally in right of payment with all existing and future senior indebtedness of the Company and effectively subordinated to any future secured indebtedness of the Company to the extent of the value of collateral securing such indebtedness.

The Unsecured Notes are fully and unconditionally guaranteed, jointly and severally, on a senior unsecured basis by each of PFSI's existing and future wholly-owned domestic subsidiaries (other than certain excluded subsidiaries). The guarantees are senior unsecured obligations of the guarantors and will rank senior in right of payment to any future subordinated indebtedness of the guarantors, equally in right of payment with all existing and future senior indebtedness of the guarantors and effectively subordinated to any future secured indebtedness of the guarantors to the extent of the value of collateral securing such indebtedness. The Unsecured Notes and the guarantees are structurally subordinated to the indebtedness and liabilities of the Company's subsidiaries that do not guarantee the Unsecured Notes.

The Unsecured Notes are summarized below:

	Year ended December 31, 2020
	(in thousands)
Average balance	\$ 158,743
Weighted average interest rate (1)	5.38 %
Total interest expense	\$ 8,774
Maximum daily amount outstanding	\$ 650,000

(1) Excludes the effect of amortization of debt issuance costs of \$225,000.

	December 31, 2020
	(in thousands)
Carrying value:	
Unpaid principal balance	\$ 650,000
Unamortized debt issuance costs, net of issuance premium	(4,180)
	<u>\$ 645,820</u>

Corporate Revolving Line of Credit

The Company, through its subsidiary PennyMac, entered into an amended and restated credit agreement on November 18, 2016, as amended (the "Credit Agreement") under which PennyMac established a revolving line of credit in an amount not to exceed \$150 million. Certain cash accounts with balances totaling \$52.6 million at December 31, 2019, were pledged to secure this revolving line of credit. PennyMac did not borrow under the revolving line of credit during the periods presented and terminated the Credit Agreement on September 29, 2020 concurrent with its issuance of the Unsecured Notes. Debt issuance costs and non-utilization fees totaled \$1.5 million, \$1.9 million and \$1.9 million for the years ended December 31, 2020, 2019 and 2018, respectively.

Note 13—Liability for Losses Under Representations and Warranties

Following is a summary of the Company's liability for losses under representations and warranties:

	Year ended December 31,		
	2020	2019	2018
		(in thousands)	
Balance at beginning of year	\$ 21,446	\$ 21,155	\$ 20,053
Provision for losses on loans sold:			
Resulting from sales of loans	21,035	8,377	5,824
Reduction in liability due to change in estimate	(8,667)	(7,877)	(4,672)
Losses incurred, net	(1,126)	(209)	(50)
Balance at end of year	<u>\$ 32,688</u>	<u>\$ 21,446</u>	<u>\$ 21,155</u>
Unpaid principal balance of loans subject to representations and warranties at end of year	\$ 210,222,447	\$ 177,611,568	

Note 14—Income Taxes

The Company files U.S. federal and state corporate income tax returns for PFSI and partnership returns for PennyMac. The Company's federal tax returns are subject to examination for 2017 and forward and its state tax returns are generally subject to examination for 2016 and forward. PennyMac's federal partnership returns are subject to examination for 2017 and forward, and its state tax returns are generally subject to examination for 2016 and forward. No returns are currently under examination.

As a result of the Reorganization, the Company recorded through equity a net deferred tax liability attributable to its acquisition of the noncontrolling interest in the amount of \$320.5 million. Beginning from November 1, 2018, the Company's income subject to the corporate federal and state income taxes will include the portion of its income formerly attributed to the noncontrolling interest. As a result, the Company has recognized an increase in its effective income tax rate.

The Reorganization was treated as an integrated transaction that qualifies as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code ("IRC") and/or a transfer described in Section 351(a) of the IRC.

PFSI received a ruling from the California Franchise Tax Board in November 2018 which allows the Company to apply a reduced California statutory rate of 8.84% compared to the 10.84% rate previously applied by the Company. As a result, the Company recorded a tax benefit of \$8.5 million due to remeasurement of deferred tax assets and tax liabilities.

Revaluation of the deferred tax asset resulting from PennyMac unitholder exchanges under the tax receivable agreement resulted in the repricing of the Company's corresponding liability under the tax receivable agreement.

The following table details the Company's provision for income taxes:

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Current expense:			
Federal	\$ 378,984	\$ 17,661	\$ 12
State	128,495	8,071	274
Total current expense	507,479	25,732	286
Deferred expense:			
Federal	61,592	85,296	23,395
State	24,654	25,451	(427)
Total deferred expense	86,246	110,747	22,968
Total provision for income taxes	<u>\$ 593,725</u>	<u>\$ 136,479</u>	<u>\$ 23,254</u>

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The following table is a reconciliation of the Company's provision for income taxes at statutory rates to the provision for income taxes at the Company's effective tax rate:

	Year ended December 31,		
	2020	2019	2018
Federal income tax statutory rate	21.0 %	21.0 %	21.0 %
Less: Income attributable to noncontrolling interest	— %	— %	(12.3)%
State income taxes, net of federal benefit	5.5 %	5.6 %	2.3 %
Tax rate revaluation	(0.1)%	(0.6)%	(2.2)%
Other	0.1 %	(0.2)%	(0.1)%
Effective income tax rate	26.5 %	25.8 %	8.7 %

The components of the Company's provision for deferred income taxes are as follows:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Mortgage servicing rights	\$ 128,471	\$ 91,592	\$ 46,064
Reserves and losses	(33,477)	(2,945)	(1,848)
California franchise taxes	(15,200)	—	—
Additional tax basis in partnership from exchanges of partnership units into the Company's common stock	5,200	4,269	(1,391)
Compensation accruals	(647)	(12,286)	(3,596)
Net operating loss	581	23,445	(14,902)
Other	1,318	6,106	(1,302)
Tax credits	—	566	(57)
Total provision for deferred income taxes	\$ 86,246	\$ 110,747	\$ 22,968

As the result of the Company's reclassification of the noncontrolling interest to paid-in capital pursuant to the Reorganization on November 1, 2018, beginning in 2018, the provision for deferred taxes reflects each individual adjustment item in PFSI's underlying investment in PennyMac.

The components of *Income taxes payable* are as follows:

	December 31,	
	2020	2019 (in thousands)
Income taxes currently payable (receivable)	\$ 25,379	\$ (6,506)
Deferred income tax liability, net	597,321	511,075
Income taxes payable	\$ 622,700	\$ 504,569

The tax effects of temporary differences that gave rise to deferred income tax assets and liabilities are presented below:

	December 31,	
	2020	2019
	(in thousands)	
Deferred income tax assets:		
Compensation accruals	\$ 41,685	\$ 41,038
Additional tax basis in partnership from exchanges of partnership units into the Company's common stock	34,697	39,897
Reserves and losses	63,011	29,534
California franchise tax	15,200	—
Net operating loss carryforward	1,077	1,658
Income tax credits carryforward	50	50
Gross deferred income tax assets	155,720	112,177
Deferred income tax liabilities:		
Mortgage servicing rights	737,106	608,635
Other	15,935	14,617
Gross deferred income tax liabilities	753,041	623,252
Net deferred income tax liability	\$ 597,321	\$ 511,075

The Company recorded a deferred tax asset of \$1.1 million related to California and other states' net operating loss carryforwards, which were mostly incurred in 2018 and expire in 2038. The utilization of this remaining net operating loss has been suspended until 2023 under the California budget deal. All of the federal net operating loss carryforward has been fully utilized in 2019. The Company has tax credits of \$0.1 million, which generally have no expiration date.

At December 31, 2020 and 2019, the Company had no unrecognized tax benefits and does not anticipate any unrecognized tax benefits. Should the recognition of any interest or penalties relative to unrecognized tax benefits be necessary, it is the Company's policy to record such expenses in the Company's income tax accounts. No such accruals existed at December 31, 2020 and 2019.

Note 15—Commitments and Contingencies

Litigation

From time to time, the Company may be involved in various legal and regulatory proceedings, lawsuits and other claims arising in the ordinary course of its business. The amount, if any, of ultimate liability with respect to such matters cannot be determined, but despite the inherent uncertainties of litigation, management currently believes that the ultimate disposition of any such proceedings and exposure will not have, individually or taken together, a material adverse effect on the financial condition, results of operations, or cash flows of the Company.

On December 20, 2018, a purported shareholder of the Company filed a complaint in a putative class and derivative action in the Court of Chancery of the State of Delaware (the “Delaware Court”), captioned Robert Garfield v. BlackRock Mortgage Ventures, LLC et al., Case No. 2018-0917-KSJM (the “Garfield Action”). The Garfield Action alleges, among other things, that certain current directors and officers of the Company breached their fiduciary duties to the Company and its shareholders by, among other things, agreeing to and entering into the Reorganization without ensuring that the Reorganization was entirely fair to the Company or public shareholders. The Reorganization was approved by 99.8% of voting shareholders on October 24, 2018. On December 19, 2019, the Delaware Court denied a motion to dismiss filed by the Company and certain of its directors and officers. While the Company and its co-defendants believe the Garfield Action is without merit and expressly disclaim any wrongdoing, they have collectively agreed to settle the Garfield Action for an amount equal to \$6.85 million in order to avoid the ongoing costs of litigation and further distractions to their respective businesses. A settlement agreement was filed with the Delaware Court on October 9, 2020, and was approved on February 11, 2021. The Company’s share of the settlement amount will be paid entirely by one of the Company’s insurers.

On November 5, 2019, Black Knight Servicing Technologies, LLC, a wholly-owned indirect subsidiary of Black Knight, Inc. (“BKI”), filed a Complaint and Demand for Jury Trial in the Circuit Court for the Fourth Judicial Circuit in and for Duval County, Florida (the “Florida State Court”), captioned *Black Knight Servicing Technologies, LLC v. PennyMac Loan Services, LLC*, Case No. 2019-CA-007908 (the “BKI Complaint”). Allegations contained within the BKI Complaint include breach of contract and misappropriation of MSP® System trade secrets in order to develop an imitation mortgage-processing system intended to replace the MSP® System. The BKI Complaint seeks damages for breach of contract and misappropriation of trade secrets, injunctive relief under the Florida Uniform Trade Secrets Act and declaratory judgment of ownership of all intellectual property and software developed by or on behalf of PLS as a result of its wrongful use of and access to the MSP® System and related trade secret and confidential information. On March 30, 2020, the Florida State Court granted a motion to compel arbitration filed by the Company. Consequently, on April 27, 2020, PennyMac dismissed its federal court action without prejudice to pursue those claims in arbitration as well. While no assurance can be provided as to the ultimate outcome of this claim or the account of any losses to the Company, the Company believes the BKI Complaint is without merit and plans to vigorously defend the matter, which remains pending.

Regulatory Matters

The Company and/or its subsidiaries are subject to various state and federal regulations related to its loan production and servicing operations by the various states it operates in as well as federal agencies such as the Consumer Financial Protection Bureau, HUD, the Federal Housing Administration as well as subject to the requirements of the Agencies it sells loans to and performs loan servicing for. As the result, the Company may become involved in information-gathering requests, reviews, investigations and proceedings (both formal and informal) by the various federal, state and local regulatory bodies.

On January 7, 2021, PLS received a letter from the CFPB notifying PLS that, in accordance with the CFPB’s discretionary Notice and Opportunity to Respond and Advise (“NORA”) process, the CFPB’s Office of Enforcement was considering recommending that the CFPB take legal action against PLS for alleged violations of the Real Estate Settlement Procedures Act and Truth in Lending Act. The CFPB’s examination covered the period from March 2015 through September 2016. Should the CFPB commence an action, it may seek restitution, civil monetary penalties, injunctive relief, or other corrective action, the extent of which remains uncertain at this time. Notably, certain of the alleged violations were originally self-identified by PLS and remediated prior to the CFPB’s examination, and all alleged violations were fully remediated as of August 2017. PLS confirmed these remediation actions as well as full restitution to any affected borrowers in its response to the NORA letter submitted on February 08, 2021. While the NORA process remains open and pending at this time, and there can be no assurance as to the nature or extent of any actions taken by the CFPB with regard to these alleged violations, the Company does not believe that the ultimate resolution of this matter will have a material adverse effect on its financial statements or operations.

Commitments to Purchase and Fund Loans

The Company's commitments to purchase and fund loans totaled \$20.6 billion as of December 31, 2020.

Note 16—Stockholders' Equity

In February 2021, the Company's board of directors approved an increase to the Company's common stock repurchase program from \$500 million to \$1 billion. The Company entered into a privately negotiated transaction with The BlackRock Foundation under the revised stock repurchase program to repurchase 6,975,323 shares of the Company's common stock at a price of \$34 per share.

The following table summarizes the Company's stock repurchase activity:

	Year ended December 31,			Cumulative total (1)
	2020	2019	2018	
	(in thousands)			
Shares of common stock repurchased	8,890	51	260	9,706
Cost of shares of common stock repurchased	\$ 337,479	\$ 1,056	\$ 5,293	\$ 352,427

(1) Amounts represent the total shares common stock repurchased under the stock repurchase program through December 31, 2020.

The shares of repurchased common stock were canceled upon settlement of the repurchase transactions and returned to the authorized but unissued common stock pool.

Note 17—Noncontrolling Interest

As a result of the Reorganization on November 1, 2018, noncontrolling interest unitholders exchanged their Class A units of PNMAC for shares of PFSI common stock without any cash consideration on a one-for-one basis and became stockholders of the Company. Consequently, the noncontrolling interest was reclassified to the Company's paid-in capital accounts.

Net income attributable to the Company's common stockholders and the effects of changes in noncontrolling ownership interest in PennyMac for the year ended December 31, 2018 is summarized below:

	Year ended December 31, 2018 (in thousands)
Net income attributable to PennyMac Financial Services, Inc. common stockholders	\$ 87,694
Increase in the Company's paid-in capital accounts for exchanges of Class A units of Private National Mortgage Acceptance Company, LLC to Class A common stock of PennyMac Financial Services, Inc.	\$ 33,156
Shares of Class A common stock of PennyMac Financial Services, Inc. issued pursuant to exchange of Class A units of Private National Mortgage Acceptance Company, LLC by noncontrolling interest unitholders and issued as equity compensation	1,635
Increase in the Company's paid-in capital for exchanges of Class A units of Private National Mortgage Acceptance Company, LLC to common stock of PennyMac Financial Services, Inc. pursuant to the Reorganization	\$ 1,064,320
Shares of common stock of PennyMac Financial Services, Inc. issued for exchange of Class A units of Private National Mortgage Acceptance Company, LLC by noncontrolling interest unitholders pursuant to the Reorganization	52,263

Note 18—Net Gains on Loans Held for Sale

Net gains on mortgage loans held for sale at fair value is summarized below:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
From non-affiliates:			
Cash gain (loss):			
Loans	\$ 2,025,260	\$ (190,853)	\$ (469,647)
Hedging activities	(767,588)	(175,305)	93,288
	<u>1,257,672</u>	<u>(366,158)</u>	<u>(376,359)</u>
Non-cash gain:			
Mortgage servicing rights and mortgage servicing liabilities resulting from loan sales	1,114,720	846,888	584,156
Provision for losses relating to representations and warranties:			
Pursuant to loan sales	(21,035)	(8,377)	(5,824)
Reduction in liability due to change in estimate	8,667	7,877	4,672
Change in fair value of loans and derivatives held at year end:			
Interest rate lock commitments	540,376	87,312	(8,934)
Loans	(326,986)	(42,878)	(1,506)
Hedging derivatives	116,690	17,499	(11,766)
	<u>2,690,104</u>	<u>542,163</u>	<u>184,439</u>
From PennyMac Mortgage Investment Trust (1)	50,681	183,365	64,583
	<u>\$ 2,740,785</u>	<u>\$ 725,528</u>	<u>\$ 249,022</u>

(1) Gains on sales of loans to PMT are primarily cash gains.

Note 19—Net Interest Income (Expense)

Net interest income (expense) is summarized below:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Interest income:			
From non-affiliates:			
Cash and short-term investments	\$ 6,154	\$ 9,776	\$ 2,038
Loans held for sale at fair value	184,789	138,124	128,732
Placement fees relating to custodial funds	52,758	134,498	78,184
	<u>243,701</u>	<u>282,398</u>	<u>208,954</u>
From PennyMac Mortgage Investment Trust—Assets purchased from PennyMac Mortgage Investment Trust under agreements to resell	3,325	6,302	7,462
	<u>247,026</u>	<u>288,700</u>	<u>216,416</u>
Interest expense:			
To non-affiliates:			
Assets sold under agreements to repurchase (1)	112,778	74,215	22,463
Mortgage loan participation purchase and sale agreements	4,933	8,874	8,754
Obligations under capital lease	425	693	536
Notes payable secured by mortgage servicing assets	46,222	67,789	71,697
Unsecured senior notes	8,774	—	—
Corporate revolving line of credit	1,537	1,921	1,913
Interest shortfall on repayments of mortgage loans serviced for Agency securitizations	82,285	41,439	18,777
Interest on mortgage loan impound deposits	6,179	6,757	5,319
	<u>263,133</u>	<u>201,688</u>	<u>129,459</u>
To PennyMac Mortgage Investment Trust—Excess servicing spread financing at fair value	8,418	10,291	15,138
	<u>271,551</u>	<u>211,979</u>	<u>144,597</u>
	<u>\$ (24,525)</u>	<u>\$ 76,721</u>	<u>\$ 71,819</u>

- (1) In 2017, the Company entered a master repurchase agreement that provided it with incentives to finance mortgage loans approved for satisfying certain consumer relief characteristics as provided in the agreement. During the years ended December 31, 2019 and 2018, the Company included \$14.7 million and \$48.1 million, respectively of such incentives as a reduction in *Interest expense*. The master repurchase agreement expired on August 21, 2019.

Note 20—Stock-based Compensation

The Company has adopted an equity incentive plan that provides for grants of stock options, time-based and performance-based restricted stock units (“RSUs”), stock appreciation rights, performance units and stock grants. As of December 31, 2020, the Company has 4.2 million units available for future awards.

Following is a summary of the stock-based compensation expense by instrument awarded:

	Year ended December 31,		
	2020	2019 (in thousands)	2018
Performance-based RSUs	\$ 20,610	\$ 14,820	\$ 12,425
Time-based RSUs	9,515	6,659	6,608
Stock options	14,980	3,292	6,218
	<u>\$ 45,105</u>	<u>\$ 24,771</u>	<u>\$ 25,251</u>

Performance-Based RSUs

The performance-based RSUs provide for the issuance of shares of the Company's common stock based on the attainment of earnings per share and/or return on equity and are generally adjusted for grantee job performance ratings. The satisfaction of the performance goals and issuance of shares will be approved by a committee of the Company's board of directors. Approximately 639,000 shares vested under the grants with a performance period ended December 31, 2020 are expected to be issued to the grantees in March 2021.

The fair value of the performance-based RSUs is measured based on the fair value of the Company's common stock at the grant date, taking into consideration management's estimate of the expected outcome of the performance goal, and the number of shares to be forfeited during the vesting period. The Company assumes forfeiture rates of 0 - 23.2% per year based on the grantees' employee classification. The actual number of shares that vest could vary from zero, if the performance goals are not met, to as much as 130% of the units granted, if the performance goals are meaningfully exceeded.

The table below summarizes performance-based RSU activity:

	Year ended December 31,		
	2020	2019	2018
	(in thousands, except per unit amounts)		
Number of units:			
Outstanding at beginning of year	1,807	1,892	2,389
Granted	440	682	524
Vested (1)	(645)	(735)	(730)
Forfeited or cancelled	(19)	(32)	(291)
Outstanding at end of year	1,583	1,807	1,892
Weighted average grant date fair value per unit:			
Outstanding at beginning of year	\$ 21.67	\$ 14.48	\$ 15.57
Granted	\$ 35.95	\$ 23.11	\$ 24.40
Vested	\$ 18.16	\$ 11.28	\$ 12.86
Forfeited	\$ 26.71	\$ 21.72	\$ 16.17
Outstanding at end of year	\$ 27.02	\$ 21.67	\$ 14.48

- (1) The actual number of performance-based RSUs vested during the year ended December 31, 2020, 2019 and 2018 was 608,000, 648,000 and 774,000 shares, respectively, which is approximately 94%, 88% and 106% of the 645,000, 735,000 and 730,000 originally granted units, respectively, due to the performance varying from the established target for the respective grant.

Following is a summary of performance-based RSUs as of December 31, 2020:

Unamortized compensation cost (in thousands)	\$ 17,101
Number of shares expected to vest (in thousands)	1,411
Weighted average remaining vesting period (in months)	11

Time-Based RSUs

The RSU grant agreements provide for the award of time-based RSUs, entitling the award recipient to one share of the Company's common stock for each RSU. One-third of the time-based RSUs vest on each of the first, second, and third anniversaries of the grant date, subject to the recipient's continued service through each anniversary.

Compensation cost relating to time-based RSUs is based on the grant date fair value of the Company's common stock and the number of shares expected to vest. For purposes of estimating the cost of the time-based RSUs granted, the Company assumes forfeiture rates of 0 - 23.5% per year based on the grantees' employee classification.

The table below summarizes time-based RSU activity:

	Year ended December 31,		
	2020	2019	2018
	(in thousands, except per unit amounts)		
Number of units:			
Outstanding at beginning of year	642	627	600
Granted	311	334	328
Vested	(357)	(300)	(254)
Forfeited	(9)	(19)	(47)
Outstanding at end of year	587	642	627
Weighted average grant date fair value per unit:			
Outstanding at beginning of year	\$ 22.40	\$ 20.39	\$ 16.37
Granted	\$ 34.98	\$ 22.88	\$ 24.25
Vested	\$ 21.75	\$ 18.73	\$ 16.08
Forfeited	\$ 28.14	\$ 22.29	\$ 19.40
Outstanding at end of year	\$ 29.37	\$ 22.40	\$ 20.39

Following is a summary of RSUs as of December 31, 2020:

Unamortized compensation cost (in thousands)	\$ 4,887
Number of units expected to vest (in thousands)	520
Weighted average remaining vesting period (in months)	9

Stock Options

The stock option award agreements provide for the award of stock options to purchase the optioned common stock. In general, and except as otherwise provided by the agreement, one-third of the stock option awards vests on each of the first, second, and third anniversaries of the grant date, subject to the recipient's continued service through each anniversary. Each stock option has a term of ten years from the date of grant but expires (1) immediately upon termination of the holder's employment or other association with the Company for cause, (2) one year after the holder's employment or other association is terminated due to death or disability and (3) three months after the holder's employment or other association is terminated for any other reason. In addition, during the year ended December 31, 2020, the Company awarded approximately 604,000 shares of stock options that vested on grant date with a term of ten years from the date of grant.

The fair value of each stock option award is estimated on the date of grant using a variant of the Black Scholes model based on the following inputs:

	Year ended December 31,		
	2020	2019	2018
Expected volatility (1)	34%	30%	30%
Expected dividends	1.4%	0%	0%
Risk-free interest rate	0.1% - 1.5%	2.5% - 2.7%	1.7% - 3.0%
Expected grantee forfeiture rate	0% - 6.7%	2.3% - 22.7%	0.0% - 23.2%

(1) Based on historical volatilities of the Company's common stock.

The Company uses its historical employee departure behavior to estimate the grantee forfeiture rates used in its option-pricing model. The expected term of common stock options granted is derived from the Company's option pricing model and represents the period that common stock options granted are expected to be outstanding. The risk-free interest rate for periods within the contractual term of the common stock option is based on the U.S. Treasury yield curve in effect at the time of grant.

The table below summarizes stock option award activity:

	Year ended December 31,		
	2020	2019	2018
	(in thousands, except per option amounts)		
Number of stock options:			
Outstanding at beginning of year	3,699	3,693	3,457
Granted	876	344	674
Exercised	(530)	(317)	(322)
Forfeited	(5)	(21)	(116)
Outstanding at end of year	4,040	3,699	3,693
Weighted average exercise price per option:			
Outstanding at beginning of year	\$ 18.40	\$ 17.81	\$ 16.40
Granted	\$ 52.00	\$ 22.92	\$ 24.40
Exercised	\$ 17.72	\$ 16.26	\$ 16.24
Forfeited	\$ 20.61	\$ 20.70	\$ 18.46
Outstanding at end of year	\$ 28.01	\$ 18.40	\$ 17.81

Following is a summary of stock options as of December 31, 2020:

Number of options exercisable at end of year (in thousands)	3,331
Weighted average exercise price per exercisable option	\$ 25.30
Weighted average remaining contractual term (in years):	
Outstanding	6.3
Exercisable	5.9
Aggregate intrinsic value:	
Outstanding (in thousands)	\$ 160,974
Exercisable (in thousands)	\$ 134,287
Expected vesting amounts:	
Number of options expected to vest (in thousands)	688
Weighted average vesting period (in months)	9

Note 21—Earnings Per Share of Common Stock

Basic earnings per share of common stock is determined using net income attributable to the Company's common stockholders divided by the weighted average number of shares of common stock outstanding during the year. Diluted earnings per share of common stock is determined by dividing net income attributable to the Company's common stockholders by the weighted average number of shares of common stock outstanding, assuming all dilutive shares of common stock were issued.

Potentially dilutive shares of common stock include non-vested stock-based compensation awards and PennyMac Class A units. The Company applies the treasury stock method to determine the diluted weighted average shares of common stock attributable to outstanding non-vested stock-based compensation awards. As a result of the Reorganization on November 1, 2018, all Class A units of PNMAC converted for shares of PFSI common stock on a one-for-one basis.

The following table summarizes the basic and diluted earnings per share calculations:

	Year ended December 31,		
	2020	2019	2018
	(in thousands, except per share data)		
Net income	\$ 1,646,884	\$ 392,965	\$ 87,694
Net income attributable to dilutive stock-based compensation units	—	—	3,868
Net income attributable to common stockholders for diluted earnings per share	\$ 1,646,884	\$ 392,965	\$ 91,562
Weighted average basic shares of common stock outstanding	75,161	78,206	33,524
Effect of dilutive shares:			
Common shares issuable under stock-based compensation plan	3,567	2,134	1,798
Weighted average shares of common stock applicable to diluted earnings per share	78,728	80,340	35,322
Basic earnings per share of common stock	\$ 21.91	\$ 5.02	\$ 2.62
Diluted earnings per share of common stock	\$ 20.92	\$ 4.89	\$ 2.59

Calculations of diluted earnings per share require certain potentially dilutive shares to be excluded when their inclusion in the diluted earnings per share calculation would be anti-dilutive. The following table summarizes the weighted-average number of anti-dilutive outstanding performance-based RSUs, time-based RSUs, stock options and Exchangeable PNMAC Class A units excluded from the calculation of diluted earnings per share:

	Year ended December 31,		
	2020	2019	2018
	(in thousands except for weighted-average exercise price)		
Performance-based RSUs (1)	322	1,032	1,084
Time-based RSUs	—	—	3
Stock options (2)	83	572	740
Exchangeable PNMAC Class A units (3)	—	—	43,700
Total anti-dilutive shares and units	405	1,604	45,527
Weighted average exercise price of anti-dilutive stock options (2)	\$ 43.89	\$ 23.70	\$ 17.81

- (1) Certain performance-based RSUs were outstanding but not included in the computation of earnings per share because the performance thresholds included in such RSUs have not been achieved.
- (2) Certain stock options were outstanding but not included in the computation of diluted earnings per share because the weighted-average exercise prices were above the average stock prices during the year.
- (3) Exchangeable PNMAC units were anti-dilutive during 2018 due to the effect of the Reorganization.

Note 22—Supplemental Cash Flow Information

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Cash paid for interest	\$ 272,970	\$ 188,346	\$ 161,001
Cash paid (refunds received) for income taxes, net	\$ 475,594	\$ 32,457	\$ (2,059)
Non-cash investing activity:			
Mortgage servicing rights resulting from loan sales	\$ 1,138,045	\$ 884,876	\$ 591,757
Unsettled portion of MSR acquisitions	\$ —	\$ —	\$ 10,139
Operating right-of-use assets recognized	\$ 14,128	\$ 83,248	\$ —
Non-cash financing activity:			
Mortgage servicing liabilities resulting from loan sales	\$ 23,325	\$ 37,988	\$ 7,601
Issuance of <i>Excess servicing spread payable to PennyMac Mortgage Investment Trust</i> pursuant to a recapture agreement	\$ 2,093	\$ 1,757	\$ 2,688
Issuance of common stock in settlement of directors' fees	\$ 194	\$ 233	\$ 330

Note 23—Regulatory Capital and Liquidity Requirements

The Company, through PLS and PennyMac, is required to maintain specified levels of capital and liquidity to remain a seller/servicer in good standing with the Agencies. Such capital and liquid asset requirements generally are tied to the size of the Company's loan servicing portfolio, loan origination volume and delinquency rates.

The Company is subject to financial eligibility requirements established by the Federal Housing Finance Agency ("FHFA") for sellers/servicers eligible to sell or service mortgage loans with Fannie Mae and Freddie Mac. The eligibility requirements include:

- tangible net worth of \$2.5 million plus 25 basis points of the UPB of the Company's total 1-4 unit servicing portfolio, excluding mortgage loans subserviced for others;
- before June 30, 2020, a liquidity requirement equal to 3.5 basis points of the aggregate UPB serviced for the Agencies plus 200 basis points of total nonperforming Agency servicing UPB (including nonperforming Agency loans that are in payment forbearance) in excess of 600 basis points; and
- effective June 30, 2020, a liquidity requirement equal to 3.5 basis points of the aggregate UPB serviced for the Agencies plus 200 basis points of total nonperforming Agency servicing UPB less 70% of such nonperforming Agency servicing UPB in excess of 600 basis points where the underlying loans are in COVID-19 pandemic-related forbearance but were current at the time they entered forbearance.

On January 31, 2020, FHFA proposed changes to the eligibility requirements, which would increase the tangible net worth requirement to \$2.5 million plus 35 basis points of the UPB of loans serviced for Ginnie Mae and 25 basis points of the UPB of all other 1-4 unit loans serviced, and increase the liquidity requirement to 4 basis points of the aggregate UPB serviced for Fannie Mae and Freddie Mac and 10 basis points of the UPB serviced for Ginnie Mae plus 300 basis points of total nonperforming Agency servicing UPB (including nonperforming Agency loans that are in payment forbearance) in excess of 400 basis points. On June 15, 2020, FHFA announced that it will be re-proposing changes to these requirements.

The Company is also subject to financial eligibility requirements for Ginnie Mae single-family issuers. The eligibility requirements include net worth of \$2.5 million plus 35 basis points of PLS' outstanding Ginnie Mae single-family obligations and a liquidity requirement equal to the greater of \$1.0 million or 10 basis points of PLS' outstanding Ginnie Mae single-family securities.

The Agencies' capital and liquidity requirements, the calculations of which are specified by each Agency, are summarized below:

Agency—company subject to requirement	December 31, 2020		December 31, 2019	
	Actual (1)	Requirement (1)	Actual (1)	Requirement (1)
	(dollars in thousands)			
Capital				
Fannie Mae & Freddie Mac – PLS	\$ 4,454,680	\$ 633,331	\$ 2,247,751	\$ 585,674
Ginnie Mae – PLS	\$ 3,794,112	\$ 1,058,641	\$ 1,907,398	\$ 910,456
HUD – PLS	\$ 3,794,112	\$ 2,500	\$ 1,907,398	\$ 2,500
Liquidity				
Fannie Mae & Freddie Mac – PLS	\$ 506,096	\$ 84,444	\$ 257,794	\$ 79,991
Ginnie Mae – PLS	\$ 506,096	\$ 215,722	\$ 257,794	\$ 216,119
Adjusted net worth / Total assets ratio				
Ginnie Mae – PLS	12 %	6 %	19 %	6 %
Tangible net worth / Total assets ratio				
Fannie Mae & Freddie Mac – PLS	14 %	6 %	22 %	6 %

(1) Calculated in compliance with the respective Agency's requirements.

Noncompliance with an Agency's requirements can result in such Agency taking various remedial actions up to and including terminating PennyMac's ability to sell loans to and service loans on behalf of the respective Agency.

Note 24—Segments

The Company operates in three segments: production, servicing and investment management.

Two of the segments are in the mortgage banking business: production and servicing. The production segment performs loan origination, acquisition and sale activities. The servicing segment performs servicing of newly originated loans, execution and management of early buyout transactions and servicing of loans sourced and managed by the investment management segment for PMT, including executing the loan resolution strategy identified by the investment management segment relating to distressed mortgage loans.

The investment management segment represents the activities of the Company's investment manager, which include sourcing, performing diligence, bidding and closing investment asset acquisitions, managing the acquired assets and correspondent production activities for PMT.

Financial performance and results by segment are as follows:

	Year ended December 31, 2020				
	Mortgage Banking			Investment Management	Total
	Production	Servicing	Total		
	(in thousands)				
Revenue: (1)					
Net gains on loans held for sale at fair value	\$ 2,297,108	\$ 443,677	\$ 2,740,785	\$ —	\$ 2,740,785
Loan origination fees	285,551	—	285,551	—	285,551
Fulfillment fees from PennyMac Mortgage Investment Trust	222,200	—	222,200	—	222,200
Net loan servicing fees	—	439,448	439,448	—	439,448
Net interest income (expense):					
Interest income	101,605	145,421	247,026	—	247,026
Interest expense	82,160	189,368	271,528	23	271,551
	19,445	(43,947)	(24,502)	(23)	(24,525)
Management fees	—	—	—	34,538	34,538
Other	695	1,584	2,279	5,321	7,600
Total net revenue	2,824,999	840,762	3,665,761	39,836	3,705,597
Expenses	860,878	578,618	1,439,496	25,492	1,464,988
Income before provision for income taxes	\$ 1,964,121	\$ 262,144	\$ 2,226,265	\$ 14,344	\$ 2,240,609
Segment assets at year end	\$ 7,870,398	\$ 23,709,122	\$ 31,579,520	\$ 18,275	\$ 31,597,795

(1) All revenues are from external customers.

	Year ended December 31, 2019				
	Mortgage Banking			Investment Management	Total
	Production	Servicing	Total		
	(in thousands)				
Revenue: (1)					
Net gains on loans held for sale at fair value	\$ 635,464	\$ 90,064	\$ 725,528	\$ —	\$ 725,528
Loan origination fees	174,156	—	174,156	—	174,156
Fulfillment fees from PennyMac Mortgage Investment Trust	160,610	—	160,610	—	160,610
Net loan servicing fees	—	293,665	293,665	—	293,665
Net interest income (expense):					
Interest income	82,338	206,362	288,700	—	288,700
Interest expense	59,973	151,950	211,923	56	211,979
	22,365	54,412	76,777	(56)	76,721
Management fees	—	—	—	36,492	36,492
Other	1,289	2,643	3,932	6,300	10,232
Total net revenue	993,884	440,784	1,434,668	42,736	1,477,404
Expenses	466,050	455,535	921,585	26,375	947,960
Income before provision for income taxes	\$ 527,834	\$ (14,751)	\$ 513,083	\$ 16,361	\$ 529,444
Segment assets at year end	\$ 4,836,472	\$ 5,347,549	\$ 10,184,021	\$ 19,996	\$ 10,204,017

(1) All revenues are from external customers.

	Year ended December 31, 2018				
	Mortgage Banking			Investment	
	Production	Servicing	Total	Management	Total
	(in thousands)				
Revenues: (1)					
Net gains on loans held for sale at fair value	\$ 141,959	\$ 107,063	\$ 249,022	\$ —	\$ 249,022
Loan origination fees	101,641	—	101,641	—	101,641
Fulfillment fees from PennyMac Mortgage Investment Trust	81,350	—	81,350	—	81,350
Net loan servicing fees	—	445,393	445,393	—	445,393
Net interest income (expense):					
Interest income	66,408	149,992	216,400	16	216,416
Interest expense	7,371	137,177	144,548	49	144,597
	59,037	12,815	71,852	(33)	71,819
Management fees	—	—	—	24,469	24,469
Carried Interest from Investment Funds	—	—	—	(365)	(365)
Other	2,008	2,650	4,658	5,516	10,174
Total net revenue	385,995	567,921	953,916	29,587	983,503
Expenses	298,729	395,619	694,348	22,584	716,932
Income before provision for income taxes and non-segment activities	87,266	172,302	259,568	7,003	266,571
Non-segment activities (2)	—	—	—	—	1,126
Income before provision for income taxes	\$ 87,266	\$ 172,302	\$ 259,568	\$ 7,003	\$ 267,697
Segment assets at year end (3)	\$ 2,434,897	\$ 5,031,920	\$ 7,466,817	\$ 11,681	\$ 7,478,498

(1) All revenues are from external customers.

(2) Represents repricing of *Payable to exchanged Private National Mortgage Acceptance Company, LLC unitholders under tax receivable agreement*.

(3) Excludes parent Company assets, which consist primarily of working capital of \$75,000.

Note 25—Parent Company Information

The Company's debt financing agreements require PLS, the Company's indirect controlled subsidiary, to comply with financial covenants that include a minimum tangible net worth of \$500 million. PLS is limited from transferring funds to the Parent by this minimum tangible net worth requirement.

**PENNYMAC FINANCIAL SERVICES, INC.
CONDENSED BALANCE SHEETS**

	December 31,	
	2020	2019
	(in thousands)	
ASSETS		
Cash	\$ 19,013	\$ 2,250
Investments in subsidiaries	3,918,583	2,443,407
Due from subsidiaries	580,069	100
Total assets	<u>\$ 4,517,665</u>	<u>\$ 2,445,757</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Unsecured senior notes	\$ 645,820	\$ —
Accounts payable and accrued expenses	14,590	—
Payable to subsidiaries	22,405	4,194
Income taxes payable	445,462	380,056
Total liabilities	<u>1,128,277</u>	<u>384,250</u>
Stockholders' equity	<u>3,389,388</u>	<u>2,061,507</u>
Total liabilities and stockholders' equity	<u>\$ 4,517,665</u>	<u>\$ 2,445,757</u>

**PENNYMAC FINANCIAL SERVICES, INC.
CONDENSED STATEMENTS OF INCOME**

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Revenues			
Dividends from subsidiaries	\$ 602,606	\$ 36,376	\$ 10,054
Net interest income (expense):			
Interest income from subsidiary	15,830	—	—
Interest expense:			
To non-affiliates	8,774	—	—
To subsidiary	83	153	32
	8,857	153	32
Net interest income (expense)	6,973	(153)	(32)
Total revenue	609,579	36,223	10,022
Expenses			
Charitable contributions	2,314	—	—
Professional services	42	—	—
Other	327	—	—
Total expenses	2,683	—	—
Income before provision for income taxes and equity in undistributed earnings in subsidiaries	606,896	36,223	10,022
Provision for income taxes	395,340	91,291	20,897
Income (loss) before equity in undistributed earnings of subsidiaries	211,556	(55,068)	(10,875)
Equity in undistributed earnings of subsidiaries	1,435,328	448,033	98,569
Net income	\$ 1,646,884	\$ 392,965	\$ 87,694

PENNYMAC FINANCIAL SERVICES, INC.
CONDENSED STATEMENTS OF CASH FLOWS

	Year ended December 31,		
	2020	2019	2018
	(in thousands)		
Cash flows from operating activities			
Net income	\$ 1,646,884	\$ 392,965	\$ 87,694
Adjustments to reconcile net income to net cash provided by operating activities			
Equity in undistributed earnings of subsidiaries	(1,435,328)	(448,033)	(98,569)
Amortization of net debt issuance cost	225	—	—
(Increase) decrease in intercompany receivable	(574,518)	8,962	(3,737)
Increase in accounts payable and accrued expenses	14,590	—	—
Increase in payable to subsidiaries	18,211	—	—
Increase in income taxes payable	65,406	58,609	22,889
Net cash (used in) provided by operating activities	(264,530)	12,503	8,277
Cash flows from investing activities			
Increase in investments in subsidiaries	—	—	(77)
Net cash used by investing activities	—	—	(77)
Cash flows from financing activities			
Issuance of unsecured senior notes	650,000	—	—
Payment of debt issuance costs	(4,405)	—	—
Payment of dividend to common stock and Class A common stockholders	(30,947)	(9,708)	(10,054)
Issuance of common stock pursuant to exercise of stock options	9,389	5,145	803
Repurchase of common stock and Class A common stock	(337,479)	(1,056)	(1,554)
Payment of withholding taxes relating to stock-based compensation	(5,265)	(4,634)	—
Net cash provided by (used in) financing activities	281,293	(10,253)	(10,805)
Net increase (decrease) in cash (1)	16,763	2,250	(2,605)
Cash at beginning of year	2,250	—	2,605
Cash at end of year	\$ 19,013	\$ 2,250	\$ —
Supplemental cash flow information:			
Non-cash financing activity:			
Issuance of common stock in settlement of directors' fees	\$ 194	\$ 233	\$ 330

(1) The Company did not hold restricted cash during the years presented.

Note 26—Subsequent Events

Management has evaluated all events and transactions through the date the Company issued these consolidated financial statements. During this period:

- On February 2, 2021, the Company's board of directors declared a cash dividend of \$0.20 per common share. The dividend will be paid on February 25, 2021 to common shareholders of record as of February 12, 2021.
- On February 2, 2021, the Company's board of directors approved an increase to its stock repurchase authorization from \$500 million to \$1.0 billion of outstanding common stock.
- On February 11, 2021, the Company issued \$650 million in principal amount of 4.25% unsecured senior notes due 2029 (the "2029 Senior Notes") that will be fully and unconditionally guaranteed, jointly and severally, on a senior unsecured basis by its existing and future wholly-owned domestic subsidiaries (other than certain excluded subsidiaries). Interest on the 2029 Senior Notes is payable semi-annually on February 15 and August 15 of each year, commencing on August 15, 2021. The 2029 Senior Notes mature on February 15, 2029.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized.

PENNYMAC FINANCIAL SERVICES, INC.

(Registrant)

By: /s/ David A. Spector
David A. Spector
Chairman and
Chief Executive Officer
(Principal Executive Officer)

Dated: February 25, 2021

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed by the following persons on behalf of the registrant in the capacities and on the dates indicated.

Signatures	Title	Date
<u>/s/ David A. Spector</u> David A. Spector	Chairman and Chief Executive Officer (Principal Executive Officer)	February 25, 2021
<u>/s/ Daniel S. Perotti</u> Daniel S. Perotti	Senior Managing Director and Chief Financial Officer (Principal Financial Officer)	February 25, 2021
<u>/s/ Gregory L. Hendry</u> Gregory L. Hendry	Chief Accounting Officer (Principal Accounting Officer)	February 25, 2021
<u>/s/ James Hunt</u> James Hunt	Director	February 25, 2021
<u>Jonathon S. Jacobson</u>	Director	February 25, 2021
<u>/s/ Patrick Kinsella</u> Patrick Kinsella	Director	February 25, 2021
<u>/s/ Anne D. McCallion</u> Anne D. McCallion	Director	February 25, 2021
<u>/s/ Joseph Mazzella</u> Joseph Mazzella	Director	February 25, 2021
<u>/s/ Farhad Nanji</u> Farhad Nanji	Director	February 25, 2021
<u>/s/ Jeffrey Perlowitz</u> Jeffrey Perlowitz	Director	February 25, 2021
<u>/s/ Lisa Shalett</u> Lisa Shalett	Director	February 25, 2021
<u>/s/ Theodore Tozer</u> Theodore Tozer	Director	February 25, 2021
<u>/s/ Emily Youssouf</u> Emily Youssouf	Director	February 25, 2021

DESCRIPTION OF THE REGISTRANT'S SECURITIES
REGISTERED PURSUANT TO SECTION 12 OF THE
SECURITIES EXCHANGE ACT OF 1934, AS AMENDED

PennyMac Financial Services, Inc. (the "Company") had one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended: our common stock.

Throughout this exhibit, references to the "we," "our," and the "Company" herein are, unless the context otherwise indicates, only to PennyMac Financial Services, Inc. and not to any of its subsidiaries.

General

Our authorized capital stock consists of 200,000,000 shares of common stock, par value \$0.0001 per share, and 10,000,000 shares of preferred stock, par value \$0.0001 per share. Unless our board of directors determines otherwise, we will issue all shares of our capital stock in uncertificated form. The following description of our capital stock is a summary and is qualified in its entirety by reference to our amended and restated certificate of incorporation, as amended (the "Certificate of Incorporation") and amended and restated bylaws, as amended (the "Bylaws").

Common Stock

Holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of stockholders. Holders of our common stock are entitled to receive dividends when and if declared by our board of directors out of funds legally available therefor, subject to any statutory or contractual restrictions on the payment of dividends and to any restrictions on the payment of dividends imposed by the terms of any outstanding preferred stock.

Upon any dissolution or liquidation or the sale of all or substantially all of our assets, after payment in full of all amounts required to be paid to creditors and to the holders of preferred stock having liquidation preferences, if any, the holders of common stock will be entitled to receive pro rata the remaining assets available for distribution.

Holders of our common stock do not have preemptive, subscription, redemption or conversion rights.

Preferred Stock

Our Certificate of Incorporation authorizes our board of directors to establish one or more series of preferred stock (including convertible preferred stock). Unless required by law or by any stock exchange, the authorized shares of preferred stock will be available for issuance without further action by our stockholders. Our board of directors is able to determine, with respect to any series of preferred stock, the terms and rights of that series, including:

- the designation of the series;
 - the number of shares of the series, which our board may, except where otherwise provided in the preferred stock designation, increase or decrease, but not below the number of shares then outstanding;
 - the voting rights, if any, of the holders of the series;
 - whether dividends, if any, will be cumulative or non-cumulative and the dividend rate of the series;
 - the dates at which dividends, if any, will be payable;
 - the rights of priority and amounts payable, if any, on shares of the series in the event of any voluntary or involuntary liquidation, dissolution or winding-up of the affairs of our company;
 - the redemption rights and price or prices, if any, for shares of the series;
 - the terms of any purchase, retirement or sinking fund, if any, provided for shares of the series;
 - the terms, if any, upon which the shares of the series will be convertible into or exchangeable for shares of any other class, classes or series or other securities, whether or not issued by our company or any other entity;
-

- restrictions, if any, upon issuance of indebtedness by us so long as any shares of the series are outstanding; and
- restrictions, if any, on the issuance of shares of the same series or of any other class or series.

We could issue a series of preferred stock that could, depending on the terms of the series, impede or discourage an acquisition attempt or other transaction that some, or a majority, of our stockholders might believe to be in their best interests or in which our stockholders might receive a premium for their shares of common stock over the market price of the shares of common stock.

Authorized but Unissued Capital Stock

The Delaware General Corporation Law (the “DGCL”) does not require stockholder approval for any issuance of authorized shares. However, the listing requirements of the New York Stock Exchange (“NYSE”), which would apply so long as our common stock remains listed on the NYSE, require stockholder approval of certain issuances equal to or exceeding 20% of the then outstanding voting power or then outstanding number of shares of common stock. These additional shares may be used for a variety of corporate purposes, including future public offerings, to raise additional capital or to facilitate acquisitions.

One of the effects of the existence of unissued and unreserved common stock or preferred stock may be to enable our board of directors to issue shares to persons friendly to current management, which issuance could render more difficult or discourage an attempt to obtain control of our company by means of a merger, tender offer, proxy contest or otherwise, and thereby protect the continuity of our management and possibly deprive our stockholders of opportunities to sell their shares of common stock at prices higher than prevailing market prices.

Anti-Takeover Effects of Provisions of Delaware Law and Our Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws

Undesignated Preferred Stock

Pursuant to our Certificate of Incorporation, our board of directors has the authority to issue preferred stock with super voting, special approval, dividend or other rights or preferences on a discriminatory basis that could impede the success of any attempt to acquire us or otherwise effect a change in control of us. These and other provisions may have the effect of deferring, delaying or discouraging hostile takeovers, or changes in control or management of our company.

Requirements for Advance Notification of Stockholder Meetings, Nominations and Proposals

Our Certificate of Incorporation provides that, subject to the rights of the holders of any series of preferred stock, special meetings of the stockholders may be called only by, or at the direction of, our board of directors, two or more of our directors, the chairman of our board, our chief executive officer or one or more holders of at least a minimum percentage of the voting power of the outstanding shares of our capital stock. This minimum will initially be 25% and will automatically increase to 51% on the first date on which the holders of outstanding shares of our common stock (other than any holder that was, or whose affiliate was, a member of Private National Mortgage Acceptance Company, LLC (“PNMAC”) immediately prior to the initial public offering of our predecessor organization) hold more than 51% of the voting power of all outstanding shares of our capital stock. Our Bylaws prohibit the conduct of any business at a special meeting other than as specified in the notice for such meeting. These provisions may have the effect of deferring, delaying or discouraging hostile takeovers, or changes in control or management of our company.

Our Bylaws establish advance notice procedures with respect to stockholder proposals and the nomination of candidates for election as directors, other than nominations made pursuant to our stockholder agreements with BlackRock Mortgage Ventures, LLC (“BMV”) and HC Partners, LLC, (“HCP”) or by or at the direction of the board of directors or a committee of the board of directors. In order for any matter to be “properly brought” before a meeting, a stockholder will have to comply with the advance notice requirements and provide us with certain information. These provisions may also defer, delay or discourage a potential acquirer from conducting a solicitation of proxies to elect the acquirer’s own slate of directors or otherwise attempting to obtain control of us.

Filling of Vacancies and Newly Created Directorships; Conduct of Stockholder Meetings

Additionally, vacancies and newly created directorships may be filled only by a vote of a majority of the directors then in office, even though such directors may constitute less than a quorum of the board required for such action, and not by the stockholders. Our Bylaws allow the presiding officer at a meeting of the stockholders to adopt rules and regulations for the conduct of meetings which may have the effect of precluding the conduct of certain business at a meeting if the rules and regulations are not followed. These provisions may also defer, delay or discourage a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of us.

No Cumulative Voting

The DGCL provides that stockholders are not entitled to the right to cumulate votes in the election of directors unless our Certificate of Incorporation provides otherwise. Our Certificate of Incorporation does not expressly provide for cumulative voting.

Amendments to Certificate of Incorporation and Bylaws

The DGCL provides that, unless a corporation's certificate of incorporation provides for a greater vote, the affirmative vote of holders of shares constituting a majority in voting power of the outstanding shares entitled to vote thereon is required to approve amendments to the certificate of incorporation. In addition to the stockholder approval required by the DGCL, our separate stockholder agreements with BMV and HCP provide that our Certificate of Incorporation may not be amended in any manner that is adverse to BMV or HCP without the consent of BMV or HCP, as applicable, as long as such stockholder, together with its affiliates, holds more than 5% of the voting power of all of our outstanding shares of capital stock.

Our Certificate of Incorporation authorizes our board of directors to amend or repeal our Bylaws, provided that, pursuant to our separate stockholder agreements with BMV and HCP, if that action by our board of directors amends the Bylaws in a manner adverse to BMV or HCP when that entity, together with its affiliates, holds at least 5% of the voting power of our outstanding shares of capital stock, such action must be approved by that entity.

Stockholder Action by Written Consent

Pursuant to Section 228 of the DGCL, any action required to be taken at any annual or special meeting of the stockholders may be taken without a meeting, without prior notice and without a vote if a consent or consents in writing, setting forth the action so taken, is signed by the holders of outstanding stock having not less than the minimum number of votes that would be necessary to authorize or take such action at a meeting at which all shares of our capital stock entitled to vote thereon were present and voted, unless our Certificate of Incorporation provides otherwise. Our Certificate of Incorporation prohibits the taking of any action of our stockholders by written consent without a meeting unless that action is taken with regard to a matter that has been approved by our board of directors or requires the approval only of certain series of our preferred stock pursuant to the terms thereof.

Delaware Anti-Takeover Statute

We have not opted out of, and therefore are subject to, Section 203 of the DGCL. Section 203 provides that, subject to certain exceptions specified in the law, a publicly-held Delaware corporation shall not engage in certain "business combinations" with any "interested stockholder" for a three-year period after the date of the transaction in which the person became an interested stockholder. These provisions generally prohibit or delay the accomplishment of, among other things, mergers, assets or stock sales or other takeover or change-in-control attempts that are not approved by a company's board of directors.

In general, Section 203 prohibits a publicly-held Delaware corporation from engaging, under certain circumstances, in a business combination with an interested stockholder for a period of three years following the date the person became an interested stockholder unless:

- prior to the time the person became an interested stockholder, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the voting stock outstanding (but not the outstanding voting stock owned by the interested stockholder) (1) shares owned by persons who are directors and also officers and (2) shares owned by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- at, or subsequent to, the time that the person became an interested stockholder, the business combination is approved by the board and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock which is not owned by the interested stockholder.

Generally, a business combination includes, among other things, a merger, asset or stock sale or other transaction resulting in a financial benefit to the interested stockholder. An interested stockholder is a person who, together with affiliates and associates, owns or, if such person is an affiliate or associate of the corporation, within three years prior to the determination of interested stockholder status, did own 15% or more of a corporation's outstanding voting stock. We expect that Section 203 will have an anti-takeover effect with respect to transactions the board of directors does not approve in advance. In such event, we would also anticipate that Section 203 could discourage attempts that might result in a premium over the market price for the shares of common stock held by stockholders.

Under certain circumstances, Section 203 makes it more difficult for a person who would be an "interested stockholder" to effect various business combinations with a corporation for a three-year period. The provisions of Section 203 may encourage companies interested in acquiring our company to negotiate in advance with our board of directors because the stockholder approval requirement would be avoided if our board of directors approves either the business combination or the transaction that results in the stockholder becoming an interested stockholder. These provisions also may make it more difficult to accomplish transactions that stockholders may otherwise deem to be in their best interests.

Corporate Opportunity

Our Certificate of Incorporation provides that neither BMV nor HCP, or their respective affiliates, has any duty (fiduciary or otherwise) to refrain from engaging, directly or indirectly, in a corporate opportunity in the same or similar lines of business in which we now engage or propose to engage. In addition, in the event that either BMV or HCP, or either of their respective affiliates, acquires knowledge of a potential transaction or other matter which may be a corporate opportunity for themselves and for us, then (i) neither we nor our stockholders will have any expectancy in such opportunity and (ii) none of BMV, HCP or any of their respective affiliates will have any duty to communicate or offer such corporate opportunity to us or our stockholders and may pursue or acquire such corporate opportunity for itself or direct such corporate opportunity to another person or entity, unless such corporate opportunity is expressly offered to such affiliate in his or her capacity as our director or officer.

Limitations of Liability and Indemnification

Section 145 of the DGCL authorizes a corporation's board of directors to grant indemnification and advancement rights to current or former officers, directors, employees and other corporate agents.

As permitted by Delaware law, our Certificate of Incorporation provides that, no director will have any personal liability to us or our stockholders for monetary damages for any breach of fiduciary duty as a director, except to the extent such exemption from liability or limitation thereof is not permitted under the DGCL as the same exists or is thereafter amended. Pursuant to Delaware law, such protection would be not available for liability:

- for any breach of a duty of loyalty to us or our stockholders;

- for acts or omissions not in good faith or that involve intentional misconduct or a knowing violation of law;
- for any transaction from which the director derived an improper benefit; or
- for unlawful payments of dividends or unlawful stock repurchases or redemptions as provided in Section 174 of the DGCL.

Our Bylaws further provide that we must indemnify our current or former directors and officers to the fullest extent permitted by Delaware law. Our Bylaws permit us to secure insurance on behalf of any of our current or former officers or directors for any liability arising out of his or her action in that capacity, whether or not Delaware law would otherwise permit indemnification.

In addition, our Bylaws also provide that we are required to advance expenses to our current or former directors and officers as incurred in connection with legal proceedings against them for which they may be indemnified and that the rights conferred in our Bylaws are not exclusive.

Our Bylaws provide that, except for proceedings to enforce rights to indemnification or advancement, we are not required to indemnify or advance expenses to our current or former director or officer in connection with any action, suit or proceeding (or part thereof) commenced by such person unless such action, suit or proceeding (or part thereof) was authorized by our board of directors.

The fifth amended and restated limited liability company agreement of PNMAC provides that PNMAC will indemnify its officers, members, managers and other affiliates to the fullest extent permitted by Delaware law, and advance expenses to its officers, members, managers and other affiliates as incurred in connection with legal proceedings against them for which they may be indemnified. The rights conferred in the fifth amended and restated limited liability company agreement of PNMAC are not exclusive.

The indemnification agreements provide, among other things, that we are required to indemnify each director and officer to the fullest extent permitted by Delaware law, our Certificate of Incorporation and our Bylaws for expenses such as, among other things, attorneys' fees, judgments, fines and settlement amounts incurred by the director or officer in any action or proceeding, including any action by or in our right, arising out of that person's services as our director or officer or as the director or officer of our subsidiary or any other company or enterprise to which the person provides services at our request. In addition, the indemnification agreements also provide that we are required to advance expenses to our directors and officers as incurred in connection with legal proceedings against them for which they may be indemnified and that the rights conferred in the indemnification agreements are not exclusive. We maintain directors' and officers' liability insurance.

The Securities and Exchange Commission has taken the position that personal liability of directors for violation of the federal securities laws cannot be limited and that indemnification by us for any such violation is unenforceable.

The limitation of liability and indemnification provisions in our Certificate of Incorporation and our Bylaws may discourage stockholders from bringing a lawsuit against our directors and officers for breach of their fiduciary duty. They may also reduce the likelihood of derivative litigation against our directors and officers, even though an action, if successful, may benefit us and other stockholders. Further, a stockholder's investment may be adversely affected to the extent that we pay the costs of settlement and damage awards against directors and officers as required by these indemnification provisions.

**PENNYMAC FINANCIAL SERVICES, INC.
INDEMNIFICATION AGREEMENT**

This Agreement is made as of _____, _____, by and between PennyMac Financial Services, Inc., a Delaware corporation (the "Corporation"), and _____ (the "Indemnitee"), a director or officer of the Corporation (this "Agreement").

WHEREAS, it is essential to the Corporation to retain and attract as directors and officers the most capable persons available, and

WHEREAS, the increase in corporate litigation subjects directors and officers to expensive litigation risks, and

WHEREAS, it is now and has always been the policy of the Corporation to indemnify its directors and officers, and

WHEREAS, the Corporation desires the Indemnitee to serve, or continue to serve, as a director or officer of the Corporation.

NOW THEREFORE, the Corporation and the Indemnitee do hereby agree as follows:

1. **Definitions.** As used in this Agreement:

(a) The term "Proceeding" shall mean any actual, threatened, pending or completed action, suit, arbitration, alternative dispute resolution proceeding, investigation, inquiry, administrative hearing or any other proceeding, whether brought by or in the right of the Corporation or otherwise and whether of a civil, criminal, administrative or investigative nature, and whether formal or informal, and any appeal therefrom.

(b) The term "Corporate Status" shall mean the status of a person who is or was, or has agreed to become, a director or officer of the Corporation, or is or was serving, or has agreed to serve, at the request of the Corporation, as a director, officer, fiduciary, partner, trustee, member, employee or agent of, or in a similar capacity with, another corporation, partnership, joint venture, trust, limited liability company or other enterprise.

(c) The term "Delaware Chancery Court" shall mean the Chancery Court of the State of Delaware.

(d) The term "Expenses" shall mean all costs, expenses, fees and charges, including without limitation, attorneys' fees, retainers, court costs, transcript costs, fees and expenses of experts, witness fees, travel expenses, duplicating costs, printing and binding costs, telephone charges, postage, delivery service fees and all other disbursements or expenses of the types customarily incurred in connection with prosecuting, investigating, defending, being or preparing to be a witness in or otherwise participating in, or preparing to prosecute or defend, be a witness in or otherwise participate in, any Proceeding or appeals thereof, (including without limitation the premium, security for, and other costs relating to any cost bond, supersedeas bond or other

appeal bond or its equivalent), or otherwise relating to a Proceeding, but shall not include the amount of judgments, fines or penalties against Indemnitee or amounts paid in settlement by Indemnitee in connection with such matters.

(e) The term “Change in Control” shall mean the occurrence of any one of the following:

(i) Any individual, entity or group (within the meaning of Section 13(d)(3) or 14(d)(2) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”)) (a “person”), other than those persons in control of the Corporation as of the date of this Agreement or a trustee or other fiduciary holding securities under an employee benefit plan of the Corporation or a corporation owned directly or indirectly by the stockholders of the Corporation in substantially the same proportions as their ownership of stock of the Corporation, becomes the beneficial owner (as defined in Rule 13d-3 under the Exchange Act), directly or indirectly, of securities of the Corporation representing 25% or more of the combined voting power of the Corporation’s then outstanding securities;

(ii) A change in the Board of Directors of the Corporation (the “Board”) such that individuals who as of the date of this Agreement constitute the Board (the “Incumbent Board”) cease for any reason to constitute at least a majority of the Board; provided, however, that any individual becoming a director subsequent to the date of this Agreement whose election or nomination for election by the Corporation’s stockholders was approved by a vote of at least a majority of the directors then comprising the Incumbent Board shall be considered as though such individual were a member of the Incumbent Board;

(iii) The consummation of: (a) a plan of complete liquidation of the Corporation; (b) an agreement for the sale or disposition of all or substantially all of the Corporation’s assets; or (c) a merger, consolidation or reorganization of the Corporation with or involving any other corporation, other than a merger, consolidation or reorganization that would result in the voting securities of the Corporation outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity) at least 50% of the combined voting power of the voting securities of the Corporation (or such surviving entity) outstanding immediately after such merger, consolidation or reorganization; or

(iv) The occurrence of any other event that the Board determines by a duly approved resolution constitutes a Change in Control.

(f) The term “Independent Counsel” shall mean a law firm, or a member of a law firm, that is experienced in matters of corporation law and neither currently is, nor in the past five years has been, retained to represent: (i) the Corporation or the Indemnitee or (ii) any other party to the Proceeding giving rise to a claim for indemnification hereunder. Notwithstanding the foregoing, the term “Independent Counsel” shall not include any person who, under the applicable standards of professional conduct then prevailing, would have a conflict of interest in representing either the Corporation or the Indemnitee in an action to determine the Indemnitee’s rights under this Agreement.

(g) References to “other enterprise” shall include employee benefit plans; references to “fines” shall include any excise tax assessed on a person with respect to any employee benefit plan; references to “serving at the request of the Corporation” shall include any service as a director, officer, employee or agent of the Corporation or any subsidiary which imposes duties on, or involves services by, such director, officer, employee, or agent with respect to an employee benefit plan, its participants, or beneficiaries; and a person who acted in good faith and in a manner such person reasonably believed to be in the interests of the participants and beneficiaries of an employee benefit plan shall be deemed to have acted in a manner “not opposed to the best interests of the Corporation” as referred to in this Agreement.

2. **Indemnity of Indemnitee.** Subject to Sections 5, 6 and 8, the Corporation shall indemnify the Indemnitee in connection with any Proceeding as to which the Indemnitee is, was or is threatened to be made a party (or is otherwise involved) by reason of the Indemnitee’s Corporate Status, to the fullest extent permitted by law (as such laws may from time to time hereafter be amended to increase the scope of such permitted indemnification). In furtherance of the foregoing and without limiting the generality thereof:

(a) **Indemnification in Third-Party Proceedings.** The Corporation shall indemnify the Indemnitee in accordance with the provisions of this Section 2(a) if the Indemnitee was or is a party to or threatened to be made a party to or otherwise involved in any Proceeding (other than a Proceeding brought by or in the right of the Corporation to procure a judgment in its favor or a Proceeding referred to in Section 5 below) by reason of the Indemnitee’s Corporate Status or by reason of any action alleged to have been taken or omitted in connection therewith, from and against all Expenses and all judgments, fines, losses, liabilities, penalties and amounts paid or payable in settlement (“Losses”) reasonably incurred¹ by or on behalf of the Indemnitee in connection with such Proceeding, if the Indemnitee acted in good faith and in a manner which the Indemnitee reasonably believed to be in, or not opposed to, the best interests of the Corporation and, with respect to any criminal Proceeding, had no reasonable cause to believe that his or her conduct was unlawful. The parties hereto intend that this Agreement shall provide to the fullest extent permitted by law for indemnification in excess of that expressly permitted by statute, including, without limitation, any indemnification provided by the Corporation’s Amended and Restated Certificate of Incorporation or Amended and Restated By-Laws, vote of the Company’s stockholders or disinterested directors or applicable law.

(b) **Indemnification in Proceedings by or in the Right of the Corporation.** The Corporation shall indemnify the Indemnitee in accordance with the provisions of this Section 2(b) if the Indemnitee was or is a party to or threatened to be made a party to or otherwise involved in any Proceeding brought by or in the right of the Corporation to procure a judgment in its favor by reason of the Indemnitee’s Corporate Status or by reason of any action alleged to have been taken or omitted in connection therewith, from and against all Expenses and Losses incurred by or on behalf of the Indemnitee in connection with such Proceeding, if the Indemnitee acted in good faith and in a manner which the Indemnitee reasonably believed to be in, or not opposed to, the best interests of the Corporation, except that, if applicable law so requires, no indemnification shall be made under this Section 2(b) in respect of any claim, issue or matter as

¹ See Article IV, Section 1 of the Bylaws.

to which the Indemnitee shall have been adjudged to be liable to the Corporation, unless, and only to the extent, that the Delaware Chancery Court or any court in which the Proceeding was brought shall determine upon application that, despite the adjudication of such liability but in view of all the circumstances of the case, the Indemnitee is fairly and reasonably entitled to indemnification.

3. **Indemnification of Successful or Partly Successful Party.** Notwithstanding any other provision of this Agreement and without limiting the rights of the Indemnitee under any other provision hereof, to the extent that the Indemnitee has been successful, on the merits or otherwise, in defense of any Proceeding or in defense of any claim, issue or matter therein (other than a Proceeding referred to in Section 5), the Indemnitee shall be indemnified against all Expenses and Losses incurred by or on behalf of the Indemnitee in connection therewith. If Indemnitee is not wholly successful in such Proceeding but is successful, on the merits or otherwise, as to one or more but less than all claims, issues, or matters in such Proceeding, the Corporation shall indemnify Indemnitee against all Expenses and Losses incurred by him or on his behalf in connection with each successfully resolved claim, issue or matter.

4. **Indemnification for Expenses of a Witness.** Notwithstanding any other provision of this Agreement, to the fullest extent permitted by law and to the extent that the Indemnitee is, by reason of the Indemnitee's Corporate Status, a witness or otherwise asked to participate in any Proceeding to which the Indemnitee is not a party, the Indemnitee shall be indemnified against all Expenses incurred by or on behalf of the Indemnitee in connection therewith.

5. **Exceptions to Right of Indemnification.** Notwithstanding anything to the contrary to this Agreement, the Corporation shall not indemnify the Indemnitee under this Agreement in connection with a Proceeding (or part thereof) initiated by the Indemnitee unless the initiation thereof was approved by the Board; and the Corporation shall not indemnify the Indemnitee to the extent the Indemnitee has been reimbursed from the proceeds of insurance, and in the event the Corporation makes any indemnification payments to the Indemnitee and the Indemnitee is subsequently reimbursed from the proceeds of insurance, the Indemnitee shall promptly refund such indemnification payments to the Corporation to the extent of such insurance reimbursement; provided that the foregoing shall not apply to any claims related to the interpretation, enforcement or defense of the Indemnitee's rights under this Agreement by litigation or otherwise, including as provided in Section 9.

6. **Notification and Defense of Claim.**

(a) The Indemnitee shall notify the Corporation in writing as soon as reasonably practicable of any Proceeding for which indemnity will or could be sought. The failure of Indemnitee to timely notify the Corporation hereunder shall not relieve the Corporation from any liability hereunder and any delay or failure in so notifying the Corporation shall not constitute a waiver by the Indemnitee of any rights hereunder except to the extent that such failure actually and materially prejudices the interests of the Corporation. The Indemnitee shall have the right to employ his or her own counsel in connection with such Proceeding, and the fees and expenses of counsel for the Indemnitee shall be at the expense of the Corporation, except as otherwise expressly provided by this Agreement, and provided that Indemnitee's counsel shall cooperate

reasonably with the Corporation's counsel to minimize the cost of defending claims against the Corporation and the Indemnatee.

(b) The Corporation shall not be required to indemnify the Indemnatee under this Agreement for any amounts paid in settlement of any Proceeding effected without its written consent. The Corporation shall not settle any Proceeding in any manner that would impose any penalty or limitation on the Indemnatee or otherwise impose any Losses on the Indemnatee that are not indemnified by the Corporation without the Indemnatee's written consent (provided that prior to such settlement the Corporation shall acknowledge in writing the Indemnatee's right to be indemnified for such Losses pursuant to this Agreement). Subject to the foregoing provisions of this Section 6(b), neither the Corporation nor the Indemnatee will unreasonably withhold or delay their consent to any proposed settlement.

7. **Advancement of Expenses.** Notwithstanding any provision of this Agreement to the contrary, the Corporation shall advance, subject to Section 8(b) and to the extent not prohibited by law, the Expenses incurred by the Indemnatee in connection with any Proceeding, and such advancement shall be made within fifteen calendar days after the receipt by the Corporation of an undertaking by or on behalf of the Indemnatee to repay all amounts so advanced to the extent that it shall ultimately be determined that the Indemnatee is not entitled to be indemnified by the Corporation as authorized in this Agreement and a statement or statements requesting such advances from time to time (which statements shall provide, to the extent available or reasonably ascertainable, reasonable evidence of the Expenses incurred or reasonably expected to be incurred by the Indemnatee) in connection therewith, whether prior to or after final disposition of any Proceeding. Advances shall be unsecured and interest free. Advances shall be made without regard to the Indemnatee's ability to repay the Expenses and without regard to the Indemnatee's ultimate entitlement to indemnification under the other provisions of this Agreement. Advances shall include any and all Expenses incurred pursuing an action to enforce this right of advancement. This Section 7 shall not apply to any claim made by Indemnatee for which indemnity is excluded pursuant to Section 5.

8. **Procedures.**

(a) In order to obtain indemnification pursuant to this Agreement, the Indemnatee shall submit to the Corporation a written request, including in such request such documentation and information as is reasonably available to the Indemnatee and is reasonably necessary to determine whether and to what extent the Indemnatee is entitled to indemnification; provided that documentation and information need not be so provided to the extent that the provision thereof would undermine or otherwise jeopardize attorney-client privilege. Any such indemnification shall be made promptly, and in any event within 30 calendar days after receipt by the Corporation of the written request of the Indemnatee, subject to the provisions of Sections 8(b) and 9(c) below. Notwithstanding the foregoing, any failure of Indemnatee to provide such a request to the Corporation, or to provide such a request in a timely fashion, shall not relieve the Corporation of any liability that it may have to Indemnatee except to the extent that such failure actually and materially prejudices the interests of the Corporation.

(b) With respect to requests for indemnification hereunder, solely to the extent required by applicable law, indemnification shall be made insofar as the Corporation determines that Indemnitee has met the applicable standard of conduct set forth herein. Any determination as to whether Indemnitee has met the applicable standard of conduct set forth herein, and any determination that advanced Expenses must be subsequently repaid to the Corporation, shall be made, in the discretion of the Board, (1) by a majority vote of the directors of the Corporation consisting of persons who are not, and were not, a party to the Proceeding in respect of which indemnification is sought by the Indemnitee ("~~disinterested directors~~"), even if less than a quorum of the Board, (2) by a committee of disinterested directors designated by a majority vote of disinterested directors, even if less than a quorum of the Board, or (3) if there are no disinterested directors, or if the disinterested directors so direct, by Independent Counsel in a written opinion to the Board, a copy of which shall be delivered to the Indemnitee. Any such determination with respect to requests for indemnification shall be made within the 30-day period referred to in Section 8(a) (unless extended by mutual agreement by the Corporation and Indemnitee); provided that if such determination has not been made within such 30-day period, then the Indemnitee shall be deemed to have satisfied the applicable standard of conduct; provided, further, that such 30-day period may be extended for a reasonable time, not to exceed an additional 30 calendar days, if the person (or persons) making such determination in good faith requires such additional time to obtain or evaluate information relating thereto. Notwithstanding anything in this Agreement to the contrary, no determination as to entitlement to indemnification under this Agreement shall be required to be made prior to the final disposition of the Proceeding; provided that, in the event the determination regarding standard of conduct has not been made within the period required by this Section 8(b), then the Indemnitee shall be deemed to have satisfied the applicable standard of conduct with respect to such Proceeding. For the purpose of the foregoing determination with respect to requests for indemnification or repayment of advanced Expenses, the Indemnitee shall be entitled to a presumption that he or she has met the applicable standard of conduct set forth herein and the Company shall have the burden of proof to overcome that presumption and establish that the Indemnitee is not so entitled.

(c) Notwithstanding anything to the contrary set forth in this Agreement, if a request for indemnification is made after a Change in Control, at the election of the Indemnitee made in writing to the Corporation, any determination required to be made pursuant to Section 8(b) above as to whether the Indemnitee has met the applicable standard of conduct or is required to repay advanced Expenses shall be made by either, as elected by the Indemnitee, (1) a majority vote of the disinterested directors, even if less than a quorum of the Board or (2) Independent Counsel selected as provided in this Section 8(c), in a written opinion to the Board, a copy of which shall be delivered to the Indemnitee. The Independent Counsel shall be selected by the Indemnitee, unless the Indemnitee shall request that such selection be made by the Board. The party making the determination shall give written notice to the other party advising it of the identity of the Independent Counsel so selected. The party receiving such notice may, within seven calendar days after such written notice of selection shall have been given, deliver to the other party a written objection to such selection. Such objection may be asserted only on the ground that the Independent Counsel so selected does not meet the requirements of "Independent Counsel" as defined in Section 1, and the objection shall set forth the factual basis of such assertion. Absent an objection delivered within such seven day period setting forth such

objection, the person so selected shall act as Independent Counsel. If a written objection is made, the Independent Counsel so selected may not serve as Independent Counsel unless and until a court has determined that such objection is without merit. If, within 20 calendar days after submission by the Indemnitee of a written request for indemnification, no Independent Counsel shall have been selected or if selected, shall have been objected to, in accordance with this paragraph either the Corporation or the Indemnitee may petition the Delaware Chancery Court for resolution of any objection which shall have been made by the Corporation or the Indemnitee to the other's selection of Independent Counsel and/or for the appointment as Independent Counsel of a person selected by the court or by such other person as the court shall designate, and the person with respect to whom an objection is favorably resolved or the person so appointed shall act as Independent Counsel. The Corporation shall pay the reasonable fees and expenses of Independent Counsel incurred in connection with its acting in such capacity. The Corporation shall pay any and all reasonable and necessary fees and expenses incident to the procedures of this paragraph, regardless of the manner in which such Independent Counsel was selected or appointed. In the event the determination regarding standard of conduct has not been made by the disinterested directors within the foregoing 30-day period or within 30 calendar days of the date in which the Independent Counsel is finally determined pursuant to this Section 8(c), as the case may be, then the Indemnitee shall be deemed to have satisfied the applicable standard of conduct; provided that such 30-day period may be extended for a reasonable time, not to exceed an additional 30 calendar days, if the person (or persons) making such determination in good faith requires such additional time to obtain or evaluate information relating thereto.

(d) The termination of any Proceeding by judgment, order, settlement, conviction or upon a plea of nolo contendere or its equivalent, shall not, of itself, adversely affect the right of the Indemnitee to indemnification or create a presumption that the Indemnitee did not act in good faith and in a manner that the Indemnitee reasonably believed to be in, or not opposed to, the best interests of the Corporation, and, with respect to any criminal Proceeding, had reasonable cause to believe that his or her conduct was unlawful.

(e) The Corporation acknowledges that a settlement or other disposition short of final judgment may be successful on the merits or otherwise if it permits a party to avoid expense, delay, distraction, disruption and uncertainty. In the event that any Proceeding to which Indemnitee is a party is resolved in any manner other than by adverse judgment against Indemnitee (including, without limitation, settlement of such Proceeding with or without payment of money or other consideration) it shall be presumed that Indemnitee has been successful on the merits or otherwise in such Proceeding. Anyone seeking to overcome this presumption shall have the burden of proof and the burden of persuasion by clear and convincing evidence.

(f) The Indemnitee shall reasonably cooperate with the person (or persons) making such determination with respect to the Indemnitee's entitlement to indemnification, including providing to such person (or persons) upon reasonable advance request any documentation or information which is not privileged or otherwise protected from disclosure and which is reasonably available to the Indemnitee and reasonably necessary to such determination. Any Expenses incurred by the Indemnitee in so cooperating shall be borne by the Corporation

(irrespective of the determination as to the Indemnatee's entitlement to indemnification) and the Corporation hereby indemnifies the Indemnatee therefrom.

(g) Indemnatee shall be deemed to have acted in good faith if Indemnatee's action is based on the records or books of account of the Corporation, including financial statements, or on information, opinions, reports or statements supplied to Indemnatee by the officers or employees of the Corporation or any subsidiary in the course of their duties, or on the advice of legal counsel for the Corporation or on information or records given or reports made to the Corporation by an independent certified public accountant or by an appraiser or other expert selected by the Corporation in accordance with applicable law.

(h) The knowledge and/or actions, or failure to act, of any director, officer, agent or employee of the Corporation or any subsidiary shall not be imputed to Indemnatee for purposes of determining the right to indemnification under this Agreement.

9. Remedies.

(a) The right to indemnification or advancement of Expenses as provided by this Agreement shall be enforceable by the Indemnatee in any court of competent jurisdiction if the Corporation denies such request, in whole or in part, or if no disposition or payment thereof is made within the applicable period referred to in Section 7 or 8.

(b) In the event that a determination shall have been made pursuant to Section 8(b) or 8(c) that the Indemnatee is not entitled to indemnification, any judicial proceeding commenced pursuant to this Section 9 shall be conducted in all respects as a de novo trial on the merits and the Indemnatee shall not be prejudiced by reason of that adverse determination. In any judicial proceeding commenced pursuant to this Section 9, unless otherwise required by law, the Corporation shall have the burden of proving the Indemnatee is not entitled to indemnification or advancement of Expenses, as the case may be.

(c) If a determination shall have been made pursuant to Section 8(b) or 8(c) that the Indemnatee is entitled to indemnification, the Corporation shall be bound by such determination in any judicial proceeding commenced pursuant to this Section 9, absent a prohibition of such indemnification under applicable law.

(d) Neither the failure of the Corporation to have made a determination prior to the commencement of such action that indemnification is proper in the circumstances because the Indemnatee has met the applicable standard of conduct, nor an actual determination by the Corporation that the Indemnatee has not met such applicable standard of conduct, shall be a defense to the action or create a presumption that the Indemnatee has not met the applicable standard of conduct.

(e) The Indemnatee's Expenses incurred in connection with successfully establishing the Indemnatee's right to indemnification, in whole or in part, in any such Proceeding shall also be indemnified by the Corporation.

The Corporation shall, to the fullest extent not prohibited by law, be precluded from asserting in any judicial proceeding commenced pursuant to this Section 9 that the procedures and presumptions of this Agreement are not valid, binding and enforceable and shall stipulate in any such court that the Corporation is bound by all the provisions of this Agreement.

10. **Partial Indemnification.** If the Indemnitee is entitled under any provision of this Agreement to indemnification by the Corporation for some or a portion of the Expenses and Losses incurred by or on behalf of the Indemnitee in connection with any Proceeding but not, however, for the total amount thereof, the Corporation shall nevertheless indemnify the Indemnitee for the portion of such Expenses and Losses to which the Indemnitee is entitled.

11. **Subrogation.** In the event of any payment under this Agreement, the Corporation shall be subrogated to the extent of such payment to all of the rights of recovery of the Indemnitee, who shall execute all papers reasonably required and take all action necessary to secure such rights, including execution of such documents as are reasonably necessary to enable the Corporation to bring suit to enforce such rights.

12. **Term of Agreement.** This Agreement shall continue until and terminate upon the later of (a) ten years after the date that the Indemnitee shall have ceased to serve as a director or officer of the Corporation or any subsidiary or, at the request of the Corporation, as a director, officer, partner, trustee, member, employee or agent of another corporation, partnership, joint venture, trust, limited liability company or other enterprise or (b) one year after the final termination of all Proceedings then pending in respect of which the Indemnitee is granted rights of indemnification or advancement of Expenses hereunder and of any proceeding commenced by the Indemnitee pursuant to Section 9 of this Agreement relating thereto.

13. **Indemnification Hereunder Not Exclusive.**

(a) The indemnification and advancement of Expenses provided by this Agreement shall not be deemed exclusive of any other rights to which the Indemnitee may be entitled under the Amended and Restated Certification of Incorporation of the Corporation, the Amended and Restated By-Laws of the Corporation, any other agreement, any vote of stockholders or disinterested directors, the General Corporation Law of Delaware, any other law (common or statutory), or otherwise, both as to action in the Indemnitee's official capacity and as to action in another capacity while holding office for the Corporation. No amendment, alteration or repeal of this Agreement or of any provision hereof shall limit or restrict any right of the Indemnitee under this Agreement in respect of any action taken or omitted by the Indemnitee in the Indemnitee's Corporate Status prior to such amendment, alteration or repeal. To the extent that a change in Delaware law, whether by statute or judicial decision, permits greater indemnification or advancement of Expenses than would be afforded currently under the Amended and Restated Certificate of Incorporation of the Corporation, the Amended and Restated By-Laws of the Corporation and/or this Agreement, it is the intent of the parties hereto that the Indemnitee shall enjoy by this Agreement the greater benefits so afforded by such change. No right or remedy herein conferred is intended to be exclusive of any other right or remedy, and every other right and remedy shall be cumulative and in addition to every other right and remedy given hereunder or now or hereafter existing at law or in equity or otherwise. The assertion or employment of

any right or remedy hereunder, or otherwise, shall not prevent the concurrent assertion or employment of any other right or remedy.

(b) The Corporation shall use commercially reasonable efforts to purchase and maintain Directors and Officers liability insurance, at its expense, to protect itself and the Indemnatee against any expense, liability or loss incurred by it or the Indemnatee in any such capacity, or arising out of the Indemnatee's status as such, whether or not the Indemnatee would be indemnified against such expense, liability or loss under this Agreement.

14. **Contribution.** To the fullest extent permissible under applicable law, if the indemnification provided for in this Agreement is unavailable to the Indemnatee for any reason whatsoever, the Corporation, in lieu of indemnifying the Indemnatee, shall contribute to the amount incurred by the Indemnatee, whether for judgments, fines, penalties, excise taxes, amounts paid or to be paid in settlement and/or for Expenses, in connection with any claim relating to an indemnifiable event under this Agreement, in such proportion as is deemed fair and reasonable in light of all of the circumstances of such Proceeding in order to reflect (a) the relative benefits received by the Corporation and the Indemnatee as a result of the event(s) and/or transaction(s) giving cause to such Proceeding; and/or (b) the relative fault of the Corporation (and its directors, officers, employees and agents) and the Indemnatee in connection with such event(s) and/or transaction(s).

15. **No Special Rights.** Nothing herein shall confer upon the Indemnatee any right to continue to serve as an officer or director of the Corporation for any period of time or at any particular rate of compensation.

16. **Savings Clause.** If this Agreement or any portion thereof shall be invalidated on any ground by any court of competent jurisdiction, then the Corporation shall nevertheless indemnify the Indemnatee as to Expenses and Losses with respect to any Proceeding to the fullest extent permitted by any applicable portion of this Agreement that shall not have been invalidated and to the fullest extent permitted by applicable law. In furtherance of the foregoing, if any provision of this Agreement shall be found to be invalid or limited in application by reason of any law or regulation, it shall not affect the validity of the remaining provisions hereof, and this Agreement shall be construed as if such invalid or unenforceable provisions had been omitted therefrom so long as the economic or legal substance of the matters contemplated by this Agreement is not affected in any manner materially adverse to any party; provided that the parties hereto will negotiate in good faith to modify this Agreement so as to effect the original intent of the parties as closely as possible in an acceptable manner to the end that the matters contemplated hereby are fulfilled to the fullest extent possible.

17. **Counterparts.** This Agreement may be executed in any number of counterparts, each of which shall constitute the original.

18. **Successors and Assigns.** This Agreement shall be binding upon the Corporation and its successors and assigns and shall inure to the benefit of the estate, heirs, executors, administrators and personal representatives of the Indemnatee.

19. **Headings.** The headings of the paragraphs of this Agreement are inserted for convenience only and shall not be deemed to constitute part of this Agreement or to affect the construction thereof.

20. **Modification and Waiver.** No supplement, modification or amendment of this Agreement shall be binding unless executed in writing by both of the parties hereto. No waiver of any of the provisions of this Agreement shall be deemed or shall constitute a waiver of any other provision hereof nor shall any such waiver constitute a continuing waiver. Except as specifically set forth herein, no failure to exercise or any delay in exercising any right or remedy hereunder shall constitute a waiver thereof.

21. **Notices.** All notices, requests, demands and other communications hereunder shall be in writing and shall be deemed to have been given (i) when delivered by hand, (ii) if mailed by certified or registered mail with postage prepaid, on the third business day after the date on which it is so mailed or (iii) one business day after being dispatched by reputable overnight courier:

(a) if to the Indemnitee, to the address set forth on the signature page hereto.

(b) if to the Corporation, to: PennyMac Financial Services, Inc., 3043 Townsgate Road, Westlake Village, CA 91361, Attn: Legal Department.

or to such other address as may have been furnished to the Indemnitee by the Corporation or to the Corporation by the Indemnitee, as the case may be.

22. **Applicable Law.** This Agreement and any dispute or claim hereunder shall be governed by, and construed and enforced in accordance with, the laws of the State of Delaware. The Indemnitee may elect to have the right to indemnification or reimbursement or advancement of Expenses interpreted on the basis of the applicable law in effect at the time of the occurrence of the event or events giving rise to the applicable Proceeding, to the extent permitted by law, or on the basis of the applicable law in effect at the time such indemnification or reimbursement or advancement of Expenses is sought. Such election shall be made, by a notice in writing to the Corporation, at the time indemnification or reimbursement or advancement of Expenses is sought; provided, however, that if no such notice is given, and if the General Corporation Law of Delaware is amended, or other Delaware law is enacted, to permit further indemnification of the directors and officers, then the Indemnitee shall be indemnified to the fullest extent permitted under the General Corporation Law of Delaware, as so amended, or by such other Delaware law, as so enacted.

23. **Enforcement.** The Corporation expressly confirms and agrees that it has entered into this Agreement in order to induce the Indemnitee to continue to serve as an officer or director of the Corporation, and acknowledges that the Indemnitee is relying upon this Agreement in continuing in such capacity.

24. **Entire Agreement.** This Agreement sets forth the entire agreement of the parties hereto in respect of the subject matter contained herein and supersedes all prior agreements, whether

oral or written, by any officer, employee or representative of any party hereto in respect of the subject matter contained herein; and any prior agreement of the parties hereto in respect of the subject matter contained herein is hereby terminated and cancelled. For avoidance of doubt, the parties confirm that the foregoing does not apply to or limit the Indemnatee's rights under Delaware law or the Corporation's Amended and Restated Certificate of Incorporation or Amended and Restated By-Laws.

25. **Consent to Suit.** In the case of any dispute under or in connection with this Agreement, the Corporation and the Indemnatee hereby irrevocably and unconditionally (a) agree that any action or proceeding arising out of or in connection with this Agreement shall be brought only in the Delaware Chancery Court, and not in any other state or federal court in the United States of America or any court in any other country, (b) consent to submit to the exclusive jurisdiction of the Delaware Chancery Court for purposes of any action or proceeding arising out of or in connection with this Agreement, (c) waive any objection to the laying of venue of any such action or proceeding in the Delaware Chancery Court, and (d) waive, and agree not to plead or to make, any claim that any such action or proceeding brought in the Delaware Chancery Court has been brought in an improper or inconvenient forum. Any judgment entered against either of the parties in any proceeding hereunder may be entered and enforced by any court of competent jurisdiction.

[Remainder of the Page Intentionally Left Blank]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed as of the day and year first above written.

PENNYMAC FINANCIAL SERVICES, INC.

By: _____
Name: _____
Title: _____

INDEMNITEE:

By: _____
Name: _____

Address: _____

**THIRD AMENDMENT
TO THE
PENNYMAC FINANCIAL SERVICES, INC.
2013 EQUITY INCENTIVE PLAN**

This Third Amendment to the PennyMac Financial Services, Inc. 2013 Equity Incentive Plan (this “***Amendment***”), effective as of December 13, 2020, is made and entered into by PennyMac Financial Services, Inc., a Delaware corporation (the “***Company***”). Terms used in this Amendment with initial capital letters that are not otherwise defined herein shall have the meanings ascribed to such terms in the PennyMac Financial Services, Inc. 2013 Equity Incentive Plan (the “***Plan***”).

RECITALS

WHEREAS, Section 16.1 of the Plan provides that the Board of Directors of the Company (the “***Board***”) may amend the Plan at any time; and

WHEREAS, the Board desires to amend the Plan to place certain restrictions on Awards granted thereunder.

NOW, THEREFORE, in accordance with Section 16.1 of the Plan, the Company hereby amends the Plan as follows:

1. Article 7 of the Plan is hereby amended to add a new Section 7.9 to read as follows:

7.9 Minimum Vesting Requirements. Notwithstanding anything to the contrary set forth in the definitions of Performance Period or Restricted Period, or as may be otherwise set forth in Section 7.1(d) or Section 7.2(c), any minimum period required before an Award vests or becomes exercisable, as applicable, shall not apply to Awards granted under the Plan with respect to the number of shares of Stock that, in the aggregate, does not exceed five percent (5%) of the total number of shares of Stock authorized for issuance pursuant to Section 4.1(b) of the Plan, which may be amended from time to time.

2. Except as expressly amended by this Amendment, the Plan shall continue in full force and effect in accordance with the provisions thereof.

[Signature page to follow]

IN WITNESS WHEREOF, the Company has caused this Amendment to be duly executed as of the date first written above.

PENNYMAC FINANCIAL SERVICES, INC.

By: /s/ Jeffrey P. Grogin
Name: Jeffrey P. Grogin
Title: Senior Managing Director and
Chief Enterprise Operations Officer

**PENNYMAC FINANCIAL SERVICES, INC.
2013 EQUITY INCENTIVE PLAN**

STOCK OPTION AWARD AGREEMENT

THIS AGREEMENT is dated as of [_____], 2020, between PennyMac Financial Services, Inc., a corporation organized under the laws of the State of Delaware (the “Company”), and the individual identified in Section 1 below (the “Recipient”).

1. Grant of Option. Pursuant and subject to the Company’s 2013 Equity Incentive Plan (as the same may be amended from time to time, the “Plan”), the Company grants to you, the Recipient identified in the table below, an option (this “Option”) to purchase from the Company all or any part of a total of the number of shares identified in the table below (the “Optioned Shares”) of Common Stock, par value \$0.0001 per share, in the Company (the “Stock”), at the exercise price per share set out in the table below.

Recipient

Number of Optioned Shares

Exercise Price Per Share

\$ _____

Grant Date

Expiration Date

Applicable Restrictions

As described in Section 5 below

2. Character of Option. This Option is not intended to be treated as an “incentive stock option” within the meaning of Section 422 of the Internal Revenue Code of 1986, as amended.

3. Expiration of Option. This Option shall expire at 5:00 p.m. PDT on the Expiration Date or, if earlier, the earliest of the dates specified in whichever of the following applies:

(a) If the termination of your employment or other association is on account of your death or Disability (as defined below) (such termination, a “Qualifying Termination”), the first anniversary of the date your employment ends.

(b) If the termination of your employment or other association is due to any reason other than death, Disability, Retirement (other than a Qualifying Retirement), or a termination for cause at anytime (such termination, an “Ordinary Course Termination”), three (3) months after your employment or other association ends.

(c) If the termination of your employment or other association is due to a Qualifying Retirement, then:

- i. With respect to any Option for which the Special Lapse Restrictions (as defined below) have lapsed or will lapse after the application of the terms of Section 5(d) below, upon the Expiration Date;
- ii. With respect to any Option for which the Special Lapse Restrictions (as defined below) have not lapsed and will not lapse after the application of the terms of Section 5(d) below, three (3) months after your employment or other association ends.

(d) If the Company terminates your employment or other association for cause, or at the termination of your employment or other association the Company had grounds to terminate your employment or other association for cause (whether then or thereafter determined) (any such event, a "Bad Leaver Event"), immediately upon the termination of your employment or other association.

For purposes of this Agreement, "Disability" shall mean the inability to engage in any substantial gainful occupation to which the relevant individual is suited by education, training or experience, by reason of any medically determinable physical or mental impairment, which condition can be expected to result in death or otherwise continue for a period of not less than twelve (12) consecutive months. For purposes of this Agreement, "Retirement" shall mean voluntary termination of employment after the age of sixty (60) with at least ten (10) years of combined service to the Company and/or any of its subsidiaries; provided, however, that if you elect to terminate your employment in connection with a Retirement, you must provide the Company with a minimum of (x) six (6) months prior written notice of such Retirement if your title is at the senior vice president level and above, or (y) three (3) months prior written notice of such Retirement if your title is at the first vice president level and below. For purposes of this Agreement, "Qualifying Retirement" means a Retirement that occurs at least nine (9) months following the Grant Date and subject to your execution and continued compliance with the terms of an agreement not to provide services as an employee, director, consultant, agent, or otherwise, to any of the Company's direct competitors for a period of two (2) years from the date of your Qualified Retirement.

For the avoidance of doubt, any portion of your Option that remains unexercised after expiration of the dates described in this Section 3 shall be immediately cancelled and forfeited.

4. Vesting of Option. Your Option shall be fully vested and exercisable as of the Grant Date. Notwithstanding the foregoing, your Option (including any Optioned Shares acquired thereunder) shall be subject to the Special Restrictions (as defined below) pursuant to Sections 5 and 6 below.

5. Special Share Restrictions; Forfeiture.

(a) In General. Until this Option expires, you may exercise it, in full or in part, at any time on or after the Grant Date. However, notwithstanding Section 7.1(e) of the Plan, during the nine-year period following the Grant Date (the "Lapse Restriction Period"), you shall not be authorized to (i) pay the exercise price or applicable taxes for any Optioned Share via any cashless exercise program (the "Exercise Restriction") or (ii) sell or transfer any Optioned Shares (such restriction, the "Transfer Restriction" and together with the Exercise Restriction, the "Special Share Restrictions"). Notwithstanding the foregoing, subject to your continuous

employment or other association with the Company, the Special Share Restrictions shall lapse with respect to one-third (1/3) of the Option and (including Optioned Shares acquired thereunder) on each of the first, second and third anniversaries of the Grant Date (each such anniversary, a "Lapse Restriction Date"), with any fractions rounded down except on the final installment.

(b) Qualifying Termination During the Lapse Restriction Period. Upon the occurrence of a Qualifying Termination, the Special Share Restrictions shall immediately lapse and the Option shall remain exercisable as provided in Section 3(a) above.

(c) Ordinary Course Termination During the Lapse Restriction Period. Upon the occurrence of any Ordinary Course Termination during the Lapse Restriction Period, any Optioned Shares remaining subject to the Special Share Restrictions shall continue to be subject to the Special Share Restrictions until the end of the Lapse Restriction Period and the Option shall remain exercisable as provided in Section 3(b) above.

(d) Retirement During the Lapse Restriction Period. If your employment or other association with the Company is terminated due to your Qualifying Retirement during the Lapse Restriction Period, the Special Share Restrictions shall lapse as follows, and the Option shall remain exercisable as provided in Section 3(c) above:

- i. If your Qualifying Retirement occurs prior to the first (1st) Lapse Restriction Date, then the Special Share Restrictions shall lapse with respect to one-third (1/3) of your Option (and including the Optioned Shares acquired thereunder), pro-rated based on (A) the number of full months of your employment from the Grant Date through the date of your Qualifying Retirement divided by (B) twelve (12);
- ii. If your Qualifying Retirement occurs on a date after the first Lapse Restriction Date, then the Special Share Restrictions shall lapse with respect to your Option (including any Optioned Shares acquired thereunder) as described in the last sentence of Section 5(a) above, as if you had remained employed through the third (3rd) Lapse Restriction Date.

(e) Bad Leaver Event. Upon a Bad Leaver Event, the Special Share Restrictions shall not lapse with respect to any Optioned Shares and shall continue until the end of the Lapse Restriction Period and any unexercised portion of the Option shall be immediately forfeited in accordance with Section 3(d) above.

6. Transfer Restrictions. You may not transfer this Option except by will or the laws of descent and distribution, and, during your lifetime, only you may exercise this Option.

7. Community Property. To the extent the you reside in a jurisdiction in which community property rules apply, without prejudice to the actual rights of the spouses as between each other, for all purposes of this Agreement, you shall be treated as agent and attorney-in-fact for that interest held or claimed by your spouse with respect to this Option and any Optioned Shares and the parties hereto shall act in all matters as if the Recipient was the sole owner of this

Option and (following exercise) any such Optioned Shares. This appointment is coupled with an interest and is irrevocable.

8. Incorporation of Plan Terms. This Option is granted subject to all of the applicable terms and provisions of the Plan, including but not limited to the limitations on the Company’s obligation to deliver Optioned Shares upon exercise set forth in Section 10 (Settlement of Awards).

9. Miscellaneous. This Agreement shall be construed and enforced in accordance with the laws of the State of Delaware, without regard to the conflict of laws principles thereof and shall be binding upon and inure to the benefit of any successor or assign of the Company and any executor, administrator, trustee, guardian, or other legal representative of you. Capitalized terms used but not defined herein shall have the meaning assigned under the Plan. The parties agree to execute such further instruments and to take such action as may reasonably be necessary to carry out the intent of this Agreement. This Agreement, including the Plan, constitute the entire agreement of the parties with respect to the subject matter hereof. This Agreement may be executed in any number of counterparts, each of which shall be an original and all of which, taken together, shall constitute one and the same instrument. In making proof of this Agreement it shall not be necessary to produce or account for more than one such counterpart. You acknowledge that you have reviewed and understand the Plan and this Agreement in their entirety, and have had an opportunity to obtain the advice of counsel prior to executing this Agreement. You hereby agree to accept as binding, conclusive and final all decisions or interpretations of the Administrator upon any questions arising under the Plan or this Agreement.

10. Tax Consequences. The Company makes no representation or warranty as to the tax treatment to you of your receipt or exercise of this Option or upon your sale or other disposition of the Optioned Shares. You should rely on your own tax advisors for such advice.

IN WITNESS WHEREOF, the parties have executed this Agreement as a sealed instrument as of the date first above written.

PENNYMAC FINANCIAL SERVICES, INC.

By: _____
Name: _____
Title: _____

Signature of Optionee

**PENNYMAC FINANCIAL SERVICES, INC.
2013 EQUITY INCENTIVE PLAN**

**RESTRICTED STOCK UNIT SUBJECT TO CONTINUED SERVICE
AWARD AGREEMENT**

THIS AGREEMENT is dated as of _____, 2020, between PennyMac Financial Services, Inc., a corporation organized under the laws of the State of Delaware (the “Company”), and the individual identified in the table below (the “Recipient”).

Recipient

Grant Date

Vesting Commencement Date

**Number of RSUs Subject to
Continued Service**

1. Grant of Restricted Stock Units. Subject to the terms and conditions of this Award Agreement and the Company’s 2013 Equity Incentive Plan, as the same may be amended, modified, supplemented or interpreted from time to time (the “Plan”), including without limitation the vesting provisions set forth in Section 2, the Company hereby grants to the Recipient, with effect as of the Grant Date specified above, the above indicated number of restricted stock units (the “RSUs”) to obtain for each RSU that is subject to vesting based on continued service, one fully paid and nonassessable share of Common Stock, par value \$0.0001 per share, in the Company (the “Stock”).

2. Vesting and Settlement.

2.1 One hundred percent (100%) of the RSUs subject to vesting based on continued service shall vest in a lump sum on the first anniversary of the Vesting Commencement Date specified above, subject to the Recipient’s continued service through such vesting. The shares of Stock earned as such RSUs vest will be transferred or issued to the Recipient promptly after the date they vest, but in any event not later than the 15th day of the third month following the end of the calendar year in which such RSUs become vested.

2.2 Until the RSUs vest and are issued pursuant to the terms of this Award Agreement, the Recipient shall have no voting or other ownership rights in the Company arising from the award of RSUs under this Agreement prior to the delivery of the shares of Stock upon the vesting of the RSUs underlying the award and delivery of the shares of Stock in settlement thereof.

2.3 If cash dividends are declared by the Company’s Board of Directors on the Stock on or after the Grant Date and prior to the settlement of the RSU, cash dividend equivalents (the “Dividend Equivalents”) shall accrue on the shares of Stock underlying RSUs, which Dividend Equivalents shall be subject to vesting and forfeiture on the same terms and conditions as the underlying RSUs. Such Dividend Equivalents will be in an amount of cash per

RSU equal to the cash dividend paid with respect to a share of outstanding Stock and shall accrue to the Recipient on the record date of the applicable dividend. The Dividend Equivalents accrued prior to the settlement date of each vested RSU will be paid to the Recipient with respect to all vested RSUs as soon as administratively feasible after each settlement date (but in no event later than 45 days following each respective settlement date). The Dividend Equivalents accrued on shares of Stock underlying RSUs that do not vest and are forfeited shall be automatically forfeited without notice for no consideration on the date such RSU is forfeited.

2.4 The Recipient's name shall be entered as the stockholder of record on the books and records of the transfer agent for the Company with respect to the Stock issuable pursuant to Section 2.1 only upon compliance to the satisfaction of the Committee with all requirements under applicable laws or regulations in connection with such issuance and with the requirements of this Agreement and of the Plan. The determination of the Committee as to such compliance shall be final and binding on the Recipient. Notwithstanding anything to the contrary in this Agreement, no Stock shall be issued in settlement of vested RSUs if the issuance of such shares would constitute a violation of any applicable federal or state securities law or other law or regulation. As a condition to the issuance of Stock to the Recipient pursuant to Section 2.1, the Company may require the Recipient to make any representation or warranty to the Company at the time vested Stock becomes issuable to the Recipient as in the opinion of legal counsel for the Company may be required by any applicable law or regulation, including the execution and delivery of an appropriate representation statement. Accordingly, the stock certificates for the Stock issued pursuant to this Award may bear appropriate legends restricting the transfer of the Stock.

3. Effect of Termination. Unless otherwise expressly provided herein, no RSUs shall vest following the date (the Recipient's "Termination Date"), reasonably fixed and determined by the Committee, of the voluntary or involuntary termination of the Recipient's service as a Director of the Company and its Affiliates, for any or no reason whatsoever, including death or disability and an entity ceasing to be an Affiliate of the Company; *provided, however*, that military or sick leave shall not be deemed a termination of employment or other association, if it does not exceed the longer of 90 days or the period during which the Recipient's reemployment rights, if any, are guaranteed by statute or by contract. As of the Recipient's Termination Date, all of the then unvested RSUs and the corresponding Dividend Equivalents shall be forfeited by the Recipient or any transferee.

4. Restrictions on Transfer. The RSUs (including, without limitation, the corresponding Dividend Equivalents) may not be assigned or transferred (by operation of law or otherwise) except by will or the laws of descent and distribution.

5. Miscellaneous.

5.1 No Special Service Rights. Nothing contained in this Award Agreement shall confer upon the Recipient any right with respect to the continuation of his or her employment or other association with the Company (or any Affiliate), or interfere in any way with the right of the Company (or any Affiliate), subject to the terms of any separate employment or consulting agreement or provision of law or corporate articles or by-laws to the contrary, at any time to terminate such employment or consulting agreement or to increase or decrease, or otherwise adjust, the other terms and conditions of the Recipient's employment or other association with the Company and its Affiliates.

5.2 Entire Agreement; Counterparts. This Award Agreement, including the Plan, constitute the entire agreement of the parties with respect to the subject matter hereof. This Award Agreement may be executed in any number of counterparts, each of which shall be an original and all of which, taken together, shall constitute one and the same instrument. In making proof of this Award Agreement it shall not be necessary to produce or account for more than one such counterpart.

5.3 Tax Consequences. The Company makes no representation or warranty as to the tax treatment to the Recipient of receipt of these RSUs and the corresponding Dividend Equivalents, and does not warrant to the Recipient that all compensation paid or delivered to him or her for his or her services will be exempt from, or paid in compliance with, Section 409A of the Internal Revenue Code of 1986, as amended, and the Treasury Regulations promulgated thereunder. The Recipient should rely on his or her own tax advisors for all such advice.

5.4 Community Property. To the extent the Recipient resides in a jurisdiction in which community property rules apply, without prejudice to the actual rights of the spouses as between each other, for all purposes of this Award Agreement, the Recipient shall be treated as agent and attorney-in-fact for that interest held or claimed by the Recipient's spouse with respect to these RSUs and the parties hereto shall act in all matters as if the Recipient was the sole owner of these RSUs. This appointment is coupled with an interest and is irrevocable.

6. Receipt of Plan. The RSUs and the corresponding Dividend Equivalents were awarded under the Plan, to which this Award Agreement is subject in all respects, including without limitation the adjustment and tax withholding provisions therein. All capitalized terms used in this Award Agreement and not otherwise defined shall have the meanings ascribed thereto in the Plan. The Recipient has reviewed and understands the Plan and this Award Agreement in their entirety, and has had an opportunity to obtain the advice of counsel prior to executing this Award Agreement. The Recipient hereby agrees to accept as binding, conclusive and final all decisions or interpretations of the Administrator upon any questions arising under the Plan or this Award Agreement.

IN WITNESS WHEREOF, the Recipient and the Company have entered into this Award Agreement as of the Grant Date.

PENNYMAC FINANCIAL SERVICES, INC.

AMENDMENT NO. 1

SECOND AMENDED AND RESTATED
MORTGAGE BANKING SERVICES AGREEMENT

Amendment No. 1 to Second Amended and Restated Mortgage Banking Services Agreement, dated as of December 8, 2020 (the “*Amendment*”), by and between PennyMac Loan Services, LLC, a Delaware limited liability company (the “*Service Provider*”), and PennyMac Corp., a Delaware corporation (the “*Company*”), and effective as of October 1, 2020.

RECITALS

WHEREAS, the Service Provider and the Company are parties to that certain Second Amended and Restated Mortgage Banking Services Agreement, dated as of June 30, 2020 (the “*Existing MBS Agreement*” and, as amended by this Amendment, the “*MBS Agreement*”). Capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Existing MBS Agreement.

WHEREAS, the Service Provider and the Company have agreed, subject to the terms and conditions of this Amendment, that the Existing MBS Agreement be amended to reflect certain agreed upon revisions to the terms of the Existing MBS Agreement.

NOW, THEREFORE, in consideration of the mutual premises and mutual obligations set forth herein, the Service Provider and the Company hereby agree that the Existing MBS Agreement is hereby amended as follows:

SECTION 1. Exhibits. Exhibit A of the Existing MBS Agreement is hereby amended by deleting it in its entirety and replacing it with the form attached hereto as Exhibit A.

SECTION 2. Conditions Precedent. This Amendment shall become effective as of the date first set forth above (the “*Amendment Effective Date*”), subject to the satisfaction of the following conditions precedent:

2.1 Delivered Documents. On the Amendment Effective Date, each party shall have received the following documents, each of which shall be satisfactory to such party in form and substance:

- (a) this Amendment, executed and delivered by duly authorized officers of the Service Provider and the Company; and
- (b) such other documents as such party or counsel to such party may reasonably request.

SECTION 3. Representations and Warranties. Each party represents that it is in compliance in all material respects with all the terms and provisions set forth in the Existing MBS Agreement on its part to be observed or performed.

SECTION 4. Limited Effect. Except as expressly amended and modified by this Amendment, the Existing MBS Agreement shall continue to be, and shall remain, in full force and effect in accordance with its terms.

SECTION 5. **GOVERNING LAW**. **THIS AMENDMENT SHALL BE CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK, AND THE OBLIGATIONS, RIGHTS AND REMEDIES OF THE PARTIES HEREUNDER SHALL BE DETERMINED IN ACCORDANCE WITH SUCH LAWS.**

SECTION 6. Counterparts. This Amendment may be executed in one or more counterparts and by different parties hereto on separate counterparts, each of which, when so executed, shall constitute one and the same agreement.

SECTION 7. Conflicts. The parties hereto agree that in the event there is any conflict between the terms of this Amendment, and the terms of the Existing MBS Agreement, the provisions of this Amendment shall control.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties have caused their names to be signed hereto by their respective officers thereunto duly authorized as of the day and year first above written.

The Service Provider:

PENNYMAC LOAN SERVICES, LLC

By: /s/ Douglas E. Jones
Name: Douglas E. Jones
Title: President

The Company:

PENNYMAC CORP.

By: /s/ Andrew S. Chang
Name: Andrew S. Chang
Title: Senior Managing Director and
Chief Financial Officer

*Signature Page to Amendment No. 1
Second Amended and Restated Mortgage Banking Services Agreement*

EXHIBIT A

(Compensation)

Fulfillment Fees

The aggregate Fulfillment Fees for Mortgage Loans during any fiscal quarter, commencing on and after October 1, 2020, shall not exceed:

(a) the product of (i) the number of Mortgage Loans with respect to which the Company issues Loan Commitments during such quarter, (ii) a factor of either .99 or .80 (representing the estimated pull through rate) depending on whether the Loan Commitments are subject to a “mandatory trade confirmation” or a “best efforts lock confirmation,” respectively, and (iii) (A) \$585.00 for each pull-through adjusted Loan Commitment issued during such quarter up to and including a total of 16,500, and (B) \$355.00 for each pull-through adjusted Loan Commitment issued during such quarter in excess of 16,500, the payment of which shall be made no later than the end of the calendar month following the calendar month of such Loan Commitments, plus

(b) (I) for the first 16,500 Mortgage Loans that are purchased by the Company from an approved Correspondent during such quarter (the “Tier 1 Purchased Loans”), funding fees in an amount no greater than the product of (i) \$315.00, and (ii) the number of such Tier 1 Purchased Loans, plus (II) for all Mortgage Loans purchased in excess of 16,500 during such quarter (the “Tier 2 Purchased Loans”), funding fees in an amount no greater than the product of (i) \$195.00, and (ii) the number of such Tier 2 Purchased Loans, the payment of which shall be made no later than the end of the calendar month following the calendar month in which such Purchased Loans were purchased by the Company; plus

(c) in the case of all Mortgage Loans other than Fannie Mae Mortgage Loans and Freddie Mac Mortgage Loans that are purchased by the Company from an approved Correspondent during such quarter, supplemental fees in an amount no greater than the product of (i) \$750.00, and (ii) the number of such Mortgage Loans sold and securitized, the payment of which shall be made no later than the end of the calendar month following the calendar month in which such Mortgage Loan was sold or securitized.

To the extent any Loan Commitments issued prior to July 1, 2020 result in the funding of Mortgage Loans on or after July 1, 2020, the aggregate Fulfillment Fees for all such Mortgage Loans purchased from an approved Correspondent shall equal (a) no greater than the product of (i) 0.35% and (ii) the aggregate initial unpaid principal balance (the “Initial UPB”) of all such Mortgage Loans purchased in such month, the payment of which shall be made no later than the end of the calendar month following the calendar month in which such Mortgage Loan was purchased, plus (b) in the case of all Mortgage Loans other than Fannie Mae Mortgage Loans and Freddie Mac Mortgage Loans, no greater than the product of (i) 0.50% and (ii) the aggregate Initial UPB of all such Mortgage Loans sold and securitized in any month, the payment of which

shall be made no later than the end of the calendar month following the calendar month in which such Mortgage Loan was sold or securitized.

No Fulfillment Fee shall be due or payable to the Service Provider with respect to any Ginnie Mae Mortgage Loan or any Mortgage Loan acquired from the Servicer Provider.

For the purposes of this Exhibit A, “mandatory trade confirmation” and “best efforts lock confirmation” shall have the meanings ascribed to them in the PennyMac Guide.

Early Purchase Program Fees

With respect to each Early Purchase Program, the Service Provider shall be entitled to fees that accrue (a) at a rate equal to \$1,500 per annum, and (b) in the amount of \$35 with respect to each Mortgage Loan purchased by the Company thereunder. The fee described in clause (a) shall accrue and be payable monthly not later than the last Business Day of each month from and after the execution of the Early Purchase Program documentation. The fee described in clause (b) shall accrue and be payable monthly not later than the fifth (5th) Business Day following the month during which the related Mortgage Loan first becomes subject to a transaction thereunder.

AMENDMENT NO. 1

SECOND AMENDED AND RESTATED
MSR RECAPTURE AGREEMENT

Amendment No. 1 to Second Amended and Restated MSR Recapture Agreement, dated as of December 8, 2020 (the “*Amendment*”), by and between PennyMac Loan Services, LLC, a Delaware limited liability company (the “*Servicer*”), and PennyMac Corp., Delaware corporation (the “*MSR Owner*”), and effective as of October 1, 2020.

RECITALS

WHEREAS, the Servicer and the MSR Owner are parties to that certain Second Amended and Restated MSR Recapture Agreement, dated as of June 30, 2020 (the “*Existing MSR Agreement*” and, as amended by this Amendment, the “*MSR Agreement*”). Capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Existing MSR Agreement.

WHEREAS, the Servicer and the MSR Owner have agreed, subject to the terms and conditions of this Amendment, that the Existing MSR Agreement be amended to reflect certain agreed upon revisions to the terms of the Existing MSR Agreement.

NOW, THEREFORE, in consideration of the mutual premises and mutual obligations set forth herein, the Servicer and the MSR Owner hereby agree that the Existing MSR Agreement is hereby amended as follows:

SECTION 1. Definitions. Section 1.01 is hereby amended by deleting the definition of “Recapture Payment” in its entirety and replacing it with the following:

“Recapture Payment” means, for each month, the sum of the following: (i) the product of (A) 0.40, and (B) the fair market value of the Servicing Rights relating to New Mortgage Loans subject to the first 15% of Recapture Rate for such month, plus (ii) the product of (A) 0.35, and (B) the fair market value of the Servicing Rights relating to New Mortgage Loans subject to the Recapture Rate in excess of 15% and up to 30% for such month, plus (iii) the product of (A) 0.30, and (B) the fair market value of the Servicing Rights relating to New Mortgage Loans subject to the Recapture Rate in excess of 30% for such month.

SECTION 2. Conditions Precedent. This Amendment shall become effective as of the date first set forth above (the “*Amendment Effective Date*”), subject to the satisfaction of the following conditions precedent:

2.1 Delivered Documents. On the Amendment Effective Date, each party shall have received the following documents, each of which shall be satisfactory to such party in form and substance:

- (a) this Amendment, executed and delivered by duly authorized officers of the Servicer and the MSR Owner; and
- (b) such other documents as such party or counsel to such party may reasonably request.

SECTION 3. Representations and Warranties. Each party represents that it is in compliance in all material respects with all the terms and provisions set forth in the Existing MSR Agreement on its part to be observed or performed.

SECTION 4. Limited Effect. Except as expressly amended and modified by this Amendment, the Existing MSR Agreement shall continue to be, and shall remain, in full force and effect in accordance with its terms.

SECTION 5. **GOVERNING LAW. THIS AMENDMENT SHALL BE CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK, AND THE OBLIGATIONS, RIGHTS AND REMEDIES OF THE PARTIES HEREUNDER SHALL BE DETERMINED IN ACCORDANCE WITH SUCH LAWS.**

SECTION 6. Counterparts. This Amendment may be executed in one or more counterparts and by different parties hereto on separate counterparts, each of which, when so executed, shall constitute one and the same agreement.

SECTION 7. Conflicts. The parties hereto agree that in the event there is any conflict between the terms of this Amendment, and the terms of the Existing MSR Agreement, the provisions of this Amendment shall control.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties have caused their names to be signed hereto by their respective officers thereunto duly authorized as of the day and year first above written.

The Servicer:

PENNYMAC LOAN SERVICES, LLC

By: /s/ Douglas E. Jones

Name: Douglas E. Jones

Title: President

The MSR Owner:

PENNYMAC CORP.

By: /s/ Andrew S. Chang

Name: Andrew S. Chang

Title: Senior Managing Director and
Chief Financial Officer

*Signature Page to Amendment No. 1
Second Amended and Restated MSR Recapture Agreement*

LIST OF PENNYMAC FINANCIAL SERVICES, INC. SUBSIDIARIES
as of December 31, 2020

Entity	Entity Type	State or Other Jurisdiction of Incorporation or Organization
Private National Mortgage Acceptance Company, LLC	Limited Liability Company	Delaware
PNMAC Capital Management, LLC	Limited Liability Company	Delaware
PennyMac Loan Services, LLC	Limited Liability Company	Delaware
PNMAC GMSR ISSUER TRUST	Statutory Trust	Delaware
PNMAC Holdings, Inc.	Corporation	Delaware
PennyMac Services, Inc.	Corporation	California
PennyPantry, LLC	Limited Liability Company	California
PFSI Funding, LLC	Limited Liability Company	Delaware
PFSI EBO Series I, LLC	Limited Liability Company	Delaware
PFSI REO Series I, LLC	Limited Liability Company	Delaware
PFSI Mortgage Finance Series I, LLC	Limited Liability Company	Delaware
PFSI 2020-EBO1 Trust	Statutory Trust	Delaware

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement Nos. 333-188929, 333-213602, 333-218388, 333-225582, 333-232081 and 333-238967 on Form S-8 and Registration Statement No. 333-191522 on Form S-3 of our reports dated February 25, 2021 relating to the consolidated financial statements of PennyMac Financial Services, Inc., and subsidiaries (the "Company") and the effectiveness of the Company's internal control over financial reporting, appearing in this Annual Report on Form 10-K of the Company for the year ended December 31, 2020.

/s/ Deloitte & Touche LLP

Los Angeles, California
February 25, 2021

CERTIFICATION

I, David A. Spector, certify that:

1. I have reviewed this Annual Report on Form 10-K of PennyMac Financial Services, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13(a)-15(e) and 15(d)-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2021

/s/ David A. Spector

David A. Spector

Chairman and Chief Executive Officer

A signed original of this written statement required by Section 302 of the Sarbanes-Oxley Act of 2002 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

CERTIFICATION

I, Daniel S. Perotti, certify that:

1. I have reviewed this Annual Report on Form 10-K of PennyMac Financial Services, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13(a)-15(e) and 15(d)-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's Board of Directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2021

/s/ Daniel S. Perotti
Daniel S. Perotti
Senior Managing Director and
Chief Financial Officer

A signed original of this written statement required by Section 302 of the Sarbanes-Oxley Act of 2002 has been provided to the Company and will be retained by the Company and furnished to the Securities and Exchange Commission or its staff upon request.

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of PennyMac Financial Services, Inc. (the "Company") for the year ended December 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, David A. Spector, Chairman and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

1. The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 25, 2021

/s/ David A. Spector

David A. Spector

Chairman and Chief Executive Officer

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to PennyMac Financial Services, Inc. and will be retained by PennyMac Financial Services, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K of PennyMac Financial Services, Inc. (the "Company") for the year ended December 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Daniel S. Perotti, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

1. The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 25, 2021

/s/ Daniel S. Perotti

Daniel S. Perotti
*Senior Managing Director and
Chief Financial Officer*

A signed original of this written statement required by Section 906, or other document authenticating, acknowledging, or otherwise adopting the signature that appears in typed form within the electronic version of this written statement required by Section 906, has been provided to PennyMac Financial Services, Inc. and will be retained by PennyMac Financial Services, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.
