UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

Form 10-K

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

For the fiscal year ended December 31, 2020

Or

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

For the transition period from

Commission file number: 001-32877

to



Mastercard Incorporated

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation or organization) 13-4172551 (IRS Employer Identification Number)

2000 Purchase Street Purchase, NY (Address of principal executive offices)

10577 (Zip Code)

(914) 249-2000

(Registrant's telephone number, including area code)

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

Title of each class	Trading Symbol	Name of each exchange of which registered
Class A Common Stock, par value \$0.0001 per share	МА	New York Stock Exchange
1.1% Notes due 2022	MA22	New York Stock Exchange
2.1% Notes due 2027	MA27	New York Stock Exchange
2.5% Notes due 2030	MA30	New York Stock Exchange

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

Class B common stock, par value \$0.0001 per share

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. (Check One): Large accelerated filer Accelerated filer

Non-accelerated filer	(do not check if a smaller reporting company)

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.

The aggregate market value of the registrant's Class A common stock, par value \$0.0001 per share, held by non-affiliates (using the New York Stock Exchange closing price as of June 30, 2020, the last business day of the registrant's most recently completed second fiscal quarter) was approximately \$261.3 billion. There is currently no established public trading market for the registrant's Class B common stock, par value \$0.0001 per share. As of February 9, 2021, there were 985,146,914 shares outstanding of the registrant's Class A common stock, par value \$0.0001 per share and 8,215,424 shares outstanding of the registrant's Class B common stock, par value \$0.0001 per share.

Portions of the registrant's definitive proxy statement for the 2021 Annual Meeting of Stockholders are incorporated by reference into Part III hereof.



MASTERCARD INCORPORATED FISCAL YEAR 2020 FORM 10-K ANNUAL REPORT

TABLE OF CONTENTS

6	ltem 1.	Business
20	Item 1A.	Risk factors
33	Item 1B.	Unresolved staff comments
33	Item 2.	Properties
33	Item 3.	Legal proceedings
33	Item 4.	Mine safety disclosures
34	-	Information about our executive officers
38	Item 5.	Market for registrant's common equity, related stockholder matters and issuer purchases of equity securities
40	Item 6.	Selected financial data
41	Item 7.	Management's discussion and analysis of financial condition and results of operations
55	Item 7A.	Quantitative and qualitative disclosures about market risk
56	Item 8.	Financial statements and supplementary data
105	Item 9.	Changes in and disagreements with accountants on accounting and financial disclosure
105	Item 9A.	Controls and procedures
105	Item 9B.	Other Information
107	ltem 10.	Directors, executive officers and corporate governance
107	ltem 11.	Executive compensation
107	ltem 12.	Security ownership of certain beneficial owners and management and related stockholder matters
107	ltem 13.	Certain relationships and related transactions, and director independence
107	ltem 14.	Principal accountant fees and services
109	Item 15.	Exhibits and financial statement schedules
109	Item 16.	Form 10-K summary
	20 33 33 33 34 38 40 41 55 56 105 105 105 105 105 105 105 105 107 107 107 107 107	20 Item 1A. 33 Item 1B. 33 Item 2. 33 Item 3. 33 Item 4. 34 - 38 Item 6. 41 Item 7. 55 Item 7A. 56 Item 9. 105 Item 9. 105 Item 91. 107 Item 11. 107 Item 12. 107 Item 13. 107 Item 14.

In this Report on Form 10-K ("Report"), references to the "Company," "Mastercard," "we," "us" or "our" refer to the business conducted by Mastercard Incorporated and its consolidated subsidiaries, including our operating subsidiary, Mastercard International Incorporated, and to the Mastercard brand.

Forward-Looking Statements

This Report contains forward-looking statements pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical facts may be forward-looking statements. When used in this Report, the words "believe", "expect", "could", "may", "would", "will", "trend" and similar words are intended to identify forward-looking statements. Examples of forward-looking statements include, but are not limited to, statements that relate to the Company's future prospects, developments and business strategies.

Many factors and uncertainties relating to our operations and business environment, all of which are difficult to predict and many of which are outside of our control, influence whether any forward-looking statements can or will be achieved. Any one of those factors could cause our actual results to differ materially from those expressed or implied in writing in any forward-looking statements made by Mastercard or on its behalf, including, but not limited to, the following factors:

- regulation directly related to the payments industry (including regulatory, legislative and litigation activity with respect to interchange rates and surcharging)
- the impact of preferential or protective government actions
- regulation of privacy, data, security and the digital economy
- regulation that directly or indirectly applies to us based on our participation in the global payments industry (including anti-money laundering, counter financing of terrorism, economic sanctions and anti-corruption; account-based payment systems; and issuer practice legislation and regulation)
- the impact of changes in tax laws, as well as regulations and interpretations of such laws or challenges to our tax positions
- potential or incurred liability and limitations on business related to any litigation or litigation settlements
- the impact of the global coronavirus (COVID-19) pandemic and containment measures taken in response
- the impact of competition in the global payments industry (including disintermediation and pricing pressure)
- the challenges relating to rapid technological developments and changes
- the challenges relating to operating a real-time account-based payment system and to working with new customers and end users
- the impact of information security incidents, account data breaches or service disruptions
- issues related to our relationships with our customers (including loss of substantial business from significant customers, competitor relationships with our customers and banking industry consolidation), merchants and governments
- exposure to loss or illiquidity due to our role as guarantor and other contractual obligations
- the impact of global economic, political, financial and societal events and conditions, including adverse currency fluctuations and foreign exchange controls
- reputational impact, including impact related to brand perception and lack of visibility of our brands in products and services
- the inability to attract, hire and retain a highly qualified and diverse workforce, or maintain our corporate culture
- issues related to acquisition integration, strategic investments and entry into new businesses
- issues related to our Class A common stock and corporate governance structure

Please see "Risk Factors" in Part I, Item 1A for a complete discussion of these risk factors. We caution you that the important factors referenced above may not contain all of the factors that are important to you. Our forward-looking statements speak only as of the date of this Report or as of the date they are made, and we undertake no obligation to update our forward-looking statements.

PART I

Item 1. Business Item 1A. Risk factors Item 1B. Unresolved staff comments Item 2. Properties Item 3. Legal proceedings Item 4. Mine safety disclosures Information about our executive officers

Item 1. Business

Overview

Mastercard is a technology company in the global payments industry that connects consumers, financial institutions, merchants, governments, digital partners, businesses and other organizations worldwide, enabling them to use electronic forms of payment instead of cash and checks. We make payments easier and more efficient by providing a wide range of payment solutions and services using our family of well-known brands, including Mastercard[®], Maestro[®] and Cirrus[®]. We operate a multi-rail network that offers customers one partner to turn to for their domestic and cross-border payment needs. Through our unique and proprietary global payments network, which we refer to as our core network, we switch (authorize, clear and settle) payment transactions and deliver related products and services. We have additional payment capabilities that include automated clearing house ("ACH") transactions (both batch and real-time account-based payments). We also provide integrated value-added offerings such as cyber and intelligence products, information and analytics services, consulting, loyalty and reward programs, processing and open banking. Our payment solutions offer customers choice and flexibility and are designed to ensure safety and security for the global payments system.

A typical transaction on our core network involves four participants in addition to us: account holder (a person or entity who holds a card or uses another device enabled for payment), issuer (the account holder's financial institution), merchant and acquirer (the merchant's financial institution). We do not issue cards, extend credit, determine or receive revenue from interest rates or other fees charged to account holders by issuers, or establish the rates charged by acquirers in connection with merchants' acceptance of our products. In most cases, account holder relationships belong to, and are managed by, our customers.

We generate revenues from assessing our customers based on the gross dollar volume ("GDV") of activity on the products that carry our brands, from the fees we charge to our customers for providing transaction switching and from other payment-related products and services.

For a full discussion of our business, please see page 8.

Our Performance

The following are our key financial and operational highlights for 2020, including growth rates over the prior year:

	GAAP			
Net revenue	Net income	Diluted EPS		
\$15.3B	\$6.4B	\$6.37		
down 9%	down 21%	down 20%		
	Non-GAAP ¹ (currency-neutral)			
Net revenue	Adjusted net income	Adjusted diluted EPS		
\$15.3B	\$6.5B	\$6.43		
down 8%	down 17%	down 16%		
\$6.1B	\$4.5B Repurchased shares	\$7.2B		
in capital returned to stockholders	\$1.6B Dividends paid	cash flows from operations		
Gross dollar volume (growth on a local currency basis) Cross-border volume growth (on a local currency basis)	Switched transactions		
\$6.3T	down 29%	90.1B up 3%		

 Non-GAAP results exclude the impact of gains and losses on equity investments, Special Items and/or foreign currency. See "Management's Discussion and Analysis of Financial Condition and Results of Operations - Financial Results Overview" in Part II, Item 7 for the reconciliation to the most direct comparable GAAP financial measures. The coronavirus ("COVID-19") outbreak and its negative impact on the global economy affected our 2020 performance, during which we saw unfavorable trends compared to historical periods. For a full discussion of this impact, see "Management's Discussion and Analysis of Financial Condition and Results of Operation" in Item II, Part 7.

Our Strategy

We grow, diversify and build our business through a combination of organic and inorganic strategic initiatives. Our ability to grow our business is influenced by:

- personal consumption expenditure ("PCE") growth
- driving cash and check transactions toward electronic forms of payment
- increasing our share in the payments space
- providing integrated value-added products and services
- providing enhanced payment capabilities to capture new payment flows, such as business to business ("B2B"), person to person ("P2P"), business to consumer ("B2C") and government payments.

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GROW	DIVERSIFY	BUILD
CORE	CUSTOMERS AND GEOGRAPHIES	NEW AREAS
Credit	Financial Inclusion	Data Analytics
Debit	New Markets	Consulting
Commercial	Businesses	Marketing Services
Prepaid	Governments	Loyalty
Digital-Physical Convergence	Merchants	Cyber and Intelligence
Acceptance	Digital Players	Processing
	Local Schemes/Switches	New Payment Flows

ENABLED BY BRAND, DATA, TECHNOLOGY AND PEOPLE

Grow. We focus on growing our core business globally, including growing our consumer and commercial products and solutions, as well as increasing the number of payment transactions we switch. We also look to provide effective and efficient payments solutions that cater to the evolving ways people interact and transact in the growing digital economy. This includes expanding merchant access to electronic payments through new technologies in an effort to deliver a better consumer experience, while creating greater efficiencies and security.

Diversify. We diversify our business by:

- working with new customers, including governments, merchants, financial technology companies (fintechs), digital players, mobile providers and other corporate businesses
- scaling our capabilities and business into new geographies, including growing acceptance in markets with limited electronic payments acceptance today
- broadening financial inclusion for the unbanked and underbanked

Build. We build our business by:

- creating and acquiring differentiated products and platforms to provide unique, innovative solutions that we bring to market to support new payment flows and related
 applications, such as real-time account-based payments and the Mastercard Track[™] suite of products
- providing services across data analytics, consulting, marketing services, loyalty, cyber and intelligence, and processing
- providing open banking capabilities to enable the reliable access, transmission and management of consumer-consented data

Strategic Partners. We work with a variety of stakeholders. We provide financial institutions with solutions to help them increase revenue by driving preference for our products and services. We help merchants, financial institutions, governments, and other organizations by delivering data-driven insights and other services that help them grow and create simple and secure customer

Open Banking

experiences. We partner with technology companies such as digital players, fintechs and mobile providers to deliver digital payment solutions powered by our technology, expertise and security protocols. We help national and local governments improve financial inclusion and efficiencies, reduce costs, increase transparency of financial transactions and data to reduce crime and corruption and advance social programs. For consumers, we provide faster, safer and more convenient ways to pay and transfer funds and exchange information to enable services.

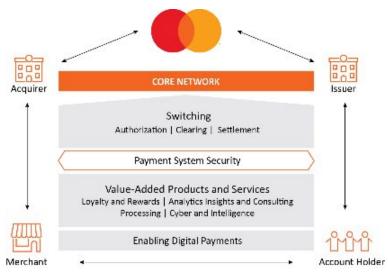
Talent and Culture. Our success is driven by the skills, experience, integrity and mindset of the talent we hire. We attract and retain top talent from diverse backgrounds and industries by building a world-class culture based on decency, respect and inclusion where people have opportunities to perform purpose-driven work that impacts customers, communities and co-workers on a global scale. The diversity and skill sets of our people underpin everything we do.

Our Business

Our Operations and Network

We operate a multi-rail network that offers our customers one partner to turn to for their domestic and cross-border needs. Our core network links issuers and acquirers around the globe to facilitate the switching of transactions, permitting account holders to use a Mastercard product at millions of acceptance locations worldwide. Our core network facilitates an efficient and secure means for receiving payments, a convenient, quick and secure payment method for consumers to access their funds and a channel for businesses to receive insight through information that is derived from our network. We enable transactions for our customers through our core network in more than 150 currencies and in more than 210 countries and territories. Our range of capabilities extend beyond our core network into real-time account-based payments and open banking.

Core Network Transactions. Our core network supports what is often referred to as a "four-party" payments network. The following diagram depicts a typical transaction on our core network, and our role in that transaction:



In a typical transaction, an account holder purchases goods or services from a merchant using one of our payment products. After the transaction is authorized by the issuer, the issuer pays the acquirer an amount equal to the value of the transaction, minus the interchange fee (described below), and then posts the transaction to the account holder's account. The acquirer pays the amount of the purchase, net of a discount (referred to as the "merchant discount" rate), to the merchant.

Interchange Fees. Interchange fees reflect the value merchants receive from accepting our products and play a key role in balancing the costs and benefits that consumers
and merchants derive. Generally, interchange fees are collected from acquirers and paid to issuers to reimburse the issuers for a portion of the costs incurred. These costs
are incurred by issuers in providing services that benefit all participants in the system, including acquirers and merchants, whose participation in the network enables
increased sales to their existing and new customers, efficiencies in the delivery of existing and new products, guaranteed payments and improved experience for the
customers. We (or, alternatively, financial institutions) establish "default interchange fees" that apply when there are no other established settlement terms in place
between an issuer and an acquirer. We administer the collection and remittance of interchange fees through the settlement process.

Additional Four-Party System Fees. The merchant discount rate is established by the acquirer to cover its costs of both participating in the four-party system and providing
services to merchants. The rate takes into consideration the amount of the interchange fee which the acquirer generally pays to the issuer. Additionally, acquirers may
charge merchants processing and related fees in addition to the merchant discount rate. Issuers may also charge account holders fees for the transaction, including, for
example, fees for extending revolving credit.

Switched Transactions

- Authorization, Clearing and Settlement. Through our core network, we enable the routing of a transaction to the issuer for its approval, facilitate the exchange of financial
 transaction information between issuers and acquirers after a successfully conducted transaction, and help to settle the transaction by facilitating the exchange of funds
 between parties via settlement banks chosen by us and our customers.
- Cross-Border and Domestic. Our core network switches transactions throughout the world when the merchant country and country of issuance are different ("cross-border transactions"), providing account holders with the ability to use, and merchants to accept, our products and services across country borders. We also provide switched transaction services to customers where the merchant country and the country of issuance are the same ("domestic transactions"). We switch over 55% of all transactions for Mastercard and Maestro-branded cards, including nearly all cross-border transactions. We switch the majority of Mastercard and Maestro-branded domestic transactions in the United States, United Kingdom, Canada, Brazil and a select number of other countries.

Core Network Architecture. Our core network features a globally integrated structure that provides scale for our issuers, enabling them to expand into regional and global markets. It is based largely on a distributed (peer-to-peer) architecture with an intelligent edge that enables the network to adapt to the needs of each transaction. Our core network accomplishes this by performing intelligent routing and applying multiple value-added services (such as fraud scoring, tokenization services, etc.) to appropriate transactions in real time. Our core network's architecture enables us to connect all parties regardless of where or how the transaction is occurring. It has 24-hour a day availability and world-class response time.

Real-time Account-based Payment Infrastructure and Applications. Augmenting our core network, we offer real-time account-based payment capabilities, enabling payments between bank accounts in real-time in countries in which it has been deployed.

Open Banking. We offer a platform that enables data providers and third parties to reliably access, securely transmit and confidently manage customer-consented data to improve the customer experience.

Payments System Security. Our payment solutions and products are designed to ensure safety and security for the global payments system. Our core network and additional platforms incorporate multiple layers of protection, providing greater resiliency and best-in-class security protection. Our programs are assessed by third parties and incorporate benchmarking and other data from peer companies and consultants. We engage in many efforts to mitigate information security challenges, including maintaining an information security program, an enterprise resilience program and insurance coverage, as well as regularly testing our systems to address potential vulnerabilities. Through the combined efforts of our Security Operations Centers, Fusion Centers and Mastercard Intelligence Center, we work with experts across the organization (as well as through other sources such as public-private partnerships), to monitor and respond quickly to a range of cyber and physical threats.

As part of our multi-layered approach to protect the global payments system, we also work with issuers, acquirers, merchants, governments and payments industry associations to help develop and put in place standards (e.g., EMV) for safe and secure transactions.

Digital Payments. Our network supports and enables our digital payment platforms, products and solutions, reflecting the growing digital economy where consumers are increasingly seeking to use their payment accounts to pay when, where and how they want. For a full discussion of the ways our innovation capabilities enable digital payments, see "Our Products and Services - Digital Enablement" below.

Customer Risk. We guarantee the settlement of many of the transactions from issuers to acquirers to ensure the integrity of our core network. We refer to the amount of this guarantee as our settlement exposure. We do not, however, guarantee payments to merchants by their acquirers or the availability of unspent prepaid account holder account balances.

Our Franchise. We manage an ecosystem of stakeholders who participate in our network. Our franchise creates and sustains a comprehensive series of value exchanges across our ecosystem. We ensure a balanced ecosystem where all participants benefit from the availability, innovation and safety and security of our network. We achieve this through the following key activities:

• Participant Onboarding. We ensure the capability of new customers to use our network, and define the roles and responsibilities for their operations once on the network

- Safety and Security. We establish the core principles, including ensuring consumer protections and integrity, so participants feel confident to transact on the network.
- Operating Standards. We define the operational, technical and financial policies to which network participants are required to adhere.
- **Responsible Stewardship.** We establish performance standards to support ecosystem growth and optimization and establish proactive monitoring to ensure participant performance.
- Issue Resolution. We operate a framework to enable the resolution of disputes for both customers and consumers.

Our Products and Services

We provide a wide variety of integrated products and services that support products that customers can offer to their account holders and merchants. These offerings facilitate transactions across our multi-rail payment network among account holders, merchants, financial institutions, businesses, governments and other organizations in markets globally.



Core Payment Products

Consumer Credit. We offer a number of products that enable issuers to provide consumers with credit that allow them to defer payment. These programs are designed to meet the needs of our customers around the world and address standard, premium and affluent consumer segments.

Consumer Debit. We support a range of payment products and solutions that allow our customers to provide consumers with convenient access to funds in deposit and other accounts. Our debit and deposit access programs can be used to make purchases and to obtain cash in bank branches, at ATMs and, in some cases, at the point of sale. Our branded debit programs consist of Mastercard (including standard, premium and affluent offerings), Maestro (the only PIN-based solution that operates globally) and Cirrus (our primary global cash access solution).

Prepaid. Prepaid accounts are a type of electronic payment that enables consumers to pay in advance whether or not they previously had a bank account or a credit history. These accounts can be tailored to meet specific program, customer or consumer needs, such as paying bills, sending person-to-person payments or withdrawing cash from an ATM. Our focus ranges from digital accounts (such as fintech and gig economy platforms) to business programs such as employee payroll, health savings accounts and solutions for small business owners). Our prepaid programs also offer opportunities in the private and public sectors to drive financial inclusion of previously unbanked individuals through social security payments, unemployment benefits and salary cards.

We also provide prepaid program management services, primarily outside of the United States, that provide processing and end-to-end services on behalf of issuers or distributor partners such as airlines, foreign exchange bureaus and travel agents.

Commercial Credit and Debit. We offer commercial credit and debit payment products and solutions that meet the payment needs of large corporations, midsize companies, small businesses and government entities. Our solutions streamline procurement and payment processes, manage information and expenses (such as travel and entertainment) and reduce administrative costs. Our card offerings include travel, small business (debit and credit), purchasing and fleet cards. Our SmartData platform provides expense management and reporting capabilities. Our Mastercard In Control™ platform generates virtual account numbers which provide businesses with enhanced controls, more security and better data. Our Mastercard Track Business Payment Service™ (Track BPS) is aimed at improving the way businesses pay and get paid by providing a single connection enabling access to multiple payment rails, greater control and richer data to optimize B2B transactions for both buyers and suppliers.

The following chart provides GDV and number of cards featuring our brands in 2020 for select programs and solutions:

		Yea	FEnded December 31, 20)20	As of Dece	ember 31, 2020	
		GDV			Cards		
	(ir	billions)	Growth (Local)	% of Total GDV	(in millions)	Percentage Increa from December 31, 3	
Mastercard-branded Programs ^{1,2}							
Consumer Credit	\$	2,425	(7) %	38 %	894	2	%
Consumer Debit and Prepaid		3,230	8 %	51 %	1,338	11	. %
Commercial Credit and Debit		682	(6) %	11 %	102	22	. %

¹ Excludes Maestro and Cirrus cards and volume generated by those cards.

² Prepaid includes both consumer and commercial prepaid.

New Payment Products and Open Banking

In addition to the switching capabilities of our core network, we offer platforms with payment capabilities that support new payment flows and related applications:

- We offer real-time account-based payments for ACH transactions. This platform enables payments between bank accounts in real time and provides enhanced data and
 messaging capabilities.
- We offer applications including those that make it easier for consumers to view, manage and pay their bills either with cards or real-time and batch ACH payments from their bank accounts, and that enable consumers, businesses, governments and merchants to send and receive money beyond borders with greater speed and ease.
- We offer an open banking platform that allows data providers and third parties to reliably access, securely transmit and confidently manage customer-consented data to
 improve the customer experience.

Value-Added Products and Services

Cyber and Intelligence. We offer integrated products and services to prevent, detect and respond to fraud and cyber-attacks and to ensure the safety of transactions made using Mastercard products. We do this using a multi-layered safety and security strategy:

- The "Prevent" layer protects infrastructure, devices and data from attacks. We have continued to grow global usage of EMV chip and contactless security technology, helping to reduce fraud. Greater usage of this technology has increased the number of EMV cards issued and the transaction volume on EMV cards.
- The "Identify" layer allows us to help banks and merchants verify the authenticity of consumers during the payment process using various biometric technologies, including fingerprint, face and iris scanning technology to verify online purchases on mobile devices, as well as a card with biometric technology built in.
- The "Detect" layer spots fraudulent behavior and cyber-attacks and takes action to stop these activities once detected. Our offerings in this space include alerts when
 accounts are exposed to data breaches or security incidents, fraud scoring technology that scans billions of dollars of money flows each day while increasing approvals and
 reducing false declines, and network-level monitoring on a global scale to help identify the occurrence of widespread fraud attacks when the customer (or their processor)
 may be unable to detect or defend against them.
- The "Experience" layer improves the security experience for our stakeholders in areas from the speed of transactions, enhancing approvals for online and card-on-file payments, to the ability to differentiate legitimate consumers from fraudulent ones. Our offerings in this space include solutions for consumer alerts and controls and a suite of digital token services. We also offer an e-

commerce fraud and dispute management network that enables merchants to stop delivery when a fraudulent or disputed transaction is identified, and issuers to refund the cardholder to avoid the chargeback process. Moreover, we use our AI and data analytics, along with our cyber risk assessment capabilities, to help financial institutions, merchants, corporations and governments secure their digital assets

We have also worked with our customers to provide products to consumers globally with increased confidence through the benefit of "zero liability", where the consumer bears no responsibility for counterfeit or lost card losses in the event of fraud.

Loyalty and Rewards. We have built a scalable rewards platform that enables customers to provide consumers with a variety of benefits and services, such as personalized offers and rewards, access to a global airline lounge network, concierge services, insurance services, emergency card replacement, emergency cash advances and a 24-hour account holder service center. For merchants, we provide campaigns with targeted offers and rewards, management services for publishing offers, and accelerated points programs for co-brand and rewards program members. We also provide a loyalty platform that enables stronger relationships with retailers, restaurants, airlines and consumer packaged goods companies by creating experiences that drive loyalty and impactful consumer engagement.

Processing. We extend our processing capabilities in the payments value chain in various regions and across the globe with an expanded suite of offerings, including:

- Issuer solutions designed to provide customers with a complete processing solution to help them create differentiated products and services and allow quick deployment
 of payments portfolios across banking channels.
- Payment gateways that offer a single interface to provide e-commerce merchants with the ability to process secure online and in-app payments and offer value-added solutions, including outsourced electronic payments, fraud prevention and alternative payment options.
- Mobile gateways that facilitate transaction routing and processing for mobile-initiated transactions.

Data Analytics and Consulting. We provide proprietary analysis, data-driven consulting and marketing services solutions to help clients optimize, streamline and grow their businesses, as well as deliver value to consumers.

Our capabilities incorporate payments expertise and analytical and executional skills to create end-to-end solutions which are increasingly delivered via platforms embedded in our customers' day-to-day operations. By observing patterns of payments behavior based on billions of transactions switched globally, we leverage anonymized and aggregated information and a consultative approach to help our customers make better business decisions. Our executional skills such as marketing, digital implementation and program management allow us to assist customers to implement actions based on these insights.

We utilize our expertise and tools to collaborate with, and increasingly drive, innovation at financial institutions, merchants and governments. Through our global innovation and development arm, Mastercard Labs, we offer "Launchpad," a five-day app prototyping workshop, as well as other customized innovation programs such as in-lab usability testing and concept design. Through our Test & Learn software as a service platform, we can help our customers conduct disciplined business experiments for in-market tests to drive more profitable decision making.

Digital Enablement

Our innovation capabilities enable broader reach to scale digital payment services beyond cards to multiple channels, including mobile devices, and our standards, services and governance model help us to serve as the connection that allows financial institutions, fintechs and technology companies to interoperate and enable consumers to engage through digital channels:

- Delivering better digital experiences everywhere. We are using our technologies and security protocols to develop solutions to make digital shopping and selling
 experiences, such as on smartphones and other connected devices, simpler, faster and safer for both consumers and merchants. We also offer products that make it easier
 for merchants to accept payments and expand their customer base, as well as products and practices to facilitate acceptance via mobile devices.
- Securing more transactions. We are leveraging tokenization, biometrics and machine learning technologies in our push to secure every transaction. These efforts include
 driving EMV-level security and benefits through all our payment channels.
- Digitizing personal and business payments. We provide solutions that enable our customers to offer consumers the ability to send and receive money quickly and securely
 domestically and around the world. These solutions allow our customers to address new payment flows from any funding source, such as cash, card, bank account or
 mobile money account, to any destination globally, securely and often in real time.
- Simplifying access to, and integration of, our digital assets. Our Mastercard Developer platform makes it easy for customers and partners to leverage our many digital assets and services. By providing a single access point with tools and capabilities to find what we believe are some of the best-in-class Application Program Interfaces ("APIs") across a broad range of Mastercard services, we enable easy integration of our services into new and existing solutions.

 Identifying and experimenting with future technologies, start-ups and trends. Through Mastercard Labs, we continue to bring customers and partners access to thought leadership, innovation methodologies, new technologies and relevant early-stage fintech players.

Brand



Our family of well-known brands includes Mastercard, Maestro and Cirrus. We manage and promote our brands and brand identities (including our sonic brand identity) through advertising, promotions and sponsorships, as well as digital, mobile and social media initiatives, in order to increase people's preference for our brands and usage of our products. We sponsor a variety of sporting, entertainment and charity-related marketing properties to align with consumer segments important to us and our customers. Our advertising plays an important role in building brand visibility, preference and overall usage among account holders globally. Our "Priceless®" advertising campaign, which has run in more than 50 languages and in more than 120 countries worldwide, promotes Mastercard usage benefits and acceptance, markets Mastercard payment products and solutions and provides Mastercard with a consistent, recognizable message that supports our brand around the globe.

Human Capital Management

As of December 31, 2020, we employed approximately 21,000 persons globally.

We are dedicated to supporting our workforce during the global COVID-19 pandemic:

- We had no COVID-19 related layoffs in 2020
- We introduced a COVID-19 global employee benefit providing up to 10 business days of additional paid leave for sick, childcare or eldercare related needs
- We covered 100% of the costs associated with COVID-19 testing for all employees and provided access to free COVID-related telemedicine consultations for our U.S. employees
- We provided employees with flexibility for how and where they get work done and put precautionary health and safety measures in place at each office location

Management regularly reviews our people strategy and culture, as well as related risks, with our Human Resources and Compensation Committee, and reviews this annually with our Board of Directors. Our strategy focuses on recruitment, development, succession and retention, including:

- Attracting top talent with the strength of our talent brand, which includes our culture of being a "force for good"
- Developing our depth of talent through acquisitions and recruitment
- Strong development and succession planning for key roles, including talent and leadership programs across various levels that:
 - Embed our culture principles
 - Focus on diverse populations and
 - Aim to develop talent and people managers through personalized and group executive development programs
- Using learning to drive innovation and growth, including a focus on scaling digital fluency globally, product training certification, creating an environment for employees to
 drive their own learning, and focusing on developing capability in key skill areas
- Retaining and growing an inclusive workforce, including:
 - Ongoing development conversations and personalized development plans
 - A focus on talent movement, including career moves and rotations and
- Competitive and differentiated pay and benefits, including pay equity on the basis of gender and (in the U.S.) race and ethnicity, as well as a flexible work model

As an organization, we are focused on maintaining a world-class culture, built on a foundation of decency:

• We are mindful of the health of our culture, looking at retention of critical roles, our external brand reputation, internal levels of engagement, and diverse representation

- We are committed to providing a safe and respectful workplace built on a culture of decency and a focus on the well-being of our employees, as well as monitoring for potential disruptions to our culture and reputation especially with respect to such events as the COVID-19 pandemic
- We are focused on providing and supporting a culture of volunteering
- We have established a culture of high ethical business practices and compliance standards, grounded in honesty, decency, trust and personal accountability. It is driven by "tone at the top," reinforced with regular training, fostered in a speak-up environment, and measured by a risk culture and climate survey

Diversity and inclusion underpin everything we do:

- We look at our recruitment, development, succession and retention practices (including global attrition rates) with a focus on gender, race (in the U.S.) and generational mix of our employee population
- We have developed regional and functional action plans to identify priorities and actions that will help us make more progress for diversity and inclusion, including balance
 and inclusion in gender and racial representation
- As part of our commitment to racial justice, we have committed to our "In Solidarity" initiative, which focuses on people, market and society to harness our culture of decency and build on our efforts to advance inclusion and equality

We encourage you to review our Sustainability Report (located on our website) for more detailed information regarding our people strategy.

Recent Developments

We are focused on helping individuals and businesses weather the challenges presented by the COVID-19 pandemic by ensuring our network remains secure, resilient and reliable. We are applying our technology, philanthropy, and data and cybersecurity expertise to help rebuild communities, ensure that economic growth is inclusive and help address new challenges facing governments, small businesses and consumers.



Consume

While technology has increasingly changed the way people get information, interact, shop and make purchases, consumers continue to expect a seamless experience where their payment is simple and secure. Our teams are creating innovative solutions that meet the needs of consumers and merchants in a digital environment by applying emerging technologies. During the global COVID-19 pandemic, we have seen continued trends toward a preference for contactless and the rapid adoption of e-commerce. These trends are further accelerating the secular shift to digital forms of payment. In 2020, we:

- expanded "click to pay", the activation of the EMV Secure Remote Commerce industry standard that enables a faster, more secure checkout experience across web and
 mobile sites, mobile apps and connected devices. This checkout experience is designed to provide consumers the same convenience and security in a digital environment
 that they have when paying in a store, make it easier for merchants to implement secure digital payments and provide issuers with improved fraud detection and
 prevention capability.
- continued our focus on contactless payments technology to help deliver a simple and intuitive way to pay, as well as health and safety benefits when consumers are looking for low-touch options. These efforts include raising contactless purchase limits in virtually all geographies.
- announced a suite of frictionless solutions in various markets designed to deliver low-touch high engagement experiences for retailers and the consumer. For example, our Shop Anywhere platform enables merchants to create simple, personalized shopping experiences in store, offering consumers no wait, no checkout lines and a secure way to pay.
- expanded our Digital First Card Program to each of our regions to provide our customers with foundational guidelines that will enable them to offer their cardholders a
 fully digital payment experience with an optional physical card. This solution enables our customers to meet cardholder expectations of immediacy, safety, and
 convenience, including during card application, authentication and instant card access, making secure purchases (whether contactless in-store, in-app, or via the web), and
 managing alerts, controls, and benefits.

5412

Commercial and B2B

Building on our corporate T&E, fleet, purchasing card and small business capabilities, we have been increasingly focused on developing solutions to address other ways that businesses move money. In 2020, we:

- added account-to-account payment functionality to Mastercard Track BPS, our open-loop commercial service platform built to simplify and automate payments between suppliers and buyers. With this launch, businesses in the United States can now have a similar experience within this service for account-to-account payments as they do for card payments - exchanging data with greater efficiency and facilitating payments across multiple payment rails including real-time and batch ACH payments.
- launched Digital Doors, a dedicated program to help small businesses successfully adapt to the changing needs of their customers by establishing and protecting an online presence, including accepting digital payments. We have also created a free Small Business Digital Readiness Diagnostic to identify the first steps needed in this transition.



New Payment Products and Open Banking

In order to help grow our business and offer more electronic payment options to consumers, businesses and governments, Mastercard has developed and enhanced solutions beyond the principal switching capabilities available on our core network. We believe this will allow us to capture more payment flows, including B2B, P2P, B2C and government disbursements. In 2020, we:

- continued to expand our support of real-time payments globally, including being selected to build and operate a new real-time clearing and settlement platform in Canada
 and partnering with the Saudi Arabian Monetary Authority to enable instant account-to-account payments in the country for the first time. These developments build on
 other recent achievements, including our selection to enhance the InstaPay real-time retail payment system in the Philippines (including operating the infrastructure for
 and providing anti-money laundering tools to the its national clearing switch). As of December 31, 2020, we either operated or were implementing real-time payments
 infrastructure in 12 of the top 50 markets as measured by GDP.
- positioned ourselves to add to our real-time payments solutions, including our pending acquisition of the majority of the Corporate Services business of Nets Denmark A/S.
 The pending acquisition primarily comprises the clearing and instant payment services, and e-billing solutions of the business.
- strengthened Mastercard's open-banking platform with our acquisition of Finicity, a leading North American provider of real-time access to financial data and insights. The
 acquisition enables a greater choice of financial services, reinforcing our long-standing partnerships with and commitment to financial institutions and fintechs across the
 globe. This acquisition also enables us to expand our capabilities across North America and globally, and in particular accelerate the adoption of Finicity's services in North
 America. Together with Finicity, we will be able to focus on serving the needs of the lending market, including through helping to streamline loan application processes and
 improve credit decisioning, thereby helping to drive further financial inclusion.
- further extended Mastercard Cross-Border Services to customers, including financial institutions and fintechs, in every region across the globe. These services enable a
 wide range of payment flows and use cases, including trade, remittances and disbursements. These flows are enabled via a distribution network that continues to evolve
 across multiple channels, including account, card, and wallets. In particular, these services have enabled inbound B2B payments into China.
- extended our blockchain initiatives, providing additional transparency and efficiencies to the cross-border B2B payments space and proof of provenance innovative, secure solutions across the global supply chain.



Value-Added Products and Services

We provide products and services including cyber and intelligence, loyalty, processing, data analytics and consulting that meet evolving requirements and the expectations of our stakeholders. We recently:

extended our investments in Artificial Intelligence ("AI") by:

 launching Mastercard ThreatScan, an AI-powered solution that helps banks proactively identify potential vulnerabilities in their authorization systems. The service works alongside an issuer's existing fraud tools, imitating known criminal transaction behavior to identify potential weaknesses and prompt action before fraud potentially occurs.

- scaling Decision Intelligence[™], our fraud scoring technology, to score billions of transactions in real time every day while increasing approvals and reducing false declines.
- scaled digital services in our Loyalty and Engagement capabilities to support customers in their response to the accelerated demand of digital services from consumers
 during the pandemic. This scaling includes additional capabilities for real-time promotions and cash back offers, digital acquisition, digital training and online offers to bring
 a full suite of digital loyalty and marketing solutions to merchants and financial institutions.
- enhanced the services we are able to offer to customers based on account-to-account flows, including data insights we are providing U.K. and U.S. customers to help them with anti-money laundering compliance and identification and prevention of other financial crimes.
- launched Recovery Insights, a set of data, tech and research tools that can help airlines, restaurants, consumer packaged goods companies, banks, governments and others
 navigate the rise in e-commerce, fine-tune operations, and prioritize investments.



Key Initiatives

- In light of the digital inequality gaps being exacerbated by COVID-19, we have expanded our worldwide commitment to financial inclusion, pledging to bring a total of 1 billion people and 50 million micro and small businesses into the digital economy by 2025. As part of this effort, we are focused on providing 25 million women entrepreneurs with solutions that can help them grow their businesses.
- Engaged with several hundred national and local governments around the world to support their efforts to respond to the pandemic crisis, including facilitating electronic disbursements of vital benefits and providing access to data-driven insights in order to assess the impact of COVID-19 on their communities and optimize their recovery plans.
- We have committed \$250 million in financial, technology, product and insight assets over the next five years to support the financial security and vitality of small businesses and their workers, including supporting the transition of low-income entrepreneurs to digital banking and helping small businesses access federal relief.
- We began to implement our "In Solidarity" initiative, which focuses on people, market and society to harness our culture of decency and build on our efforts to advance inclusion and equality.
- We launched the Priceless Planet Coalition, a platform to unite corporate sustainability efforts and make meaningful investments to preserve the environment. Together with partners who share a commitment to doing well by doing good, the coalition is pledging to plant 100 million trees over five years.
- We announced the expansion of Start Path, our startup engagement program, adding new seed businesses and more technology partners. Through this program, we provide entrepreneurs access to expert engineers and specialists that can help them deploy new services quickly and efficiently and help them grow their businesses and scale sustainably.

Revenue Sources

We generate revenue primarily from assessing our customers based on GDV on the products that carry our brands, from the fees we charge to our customers for providing transaction processing and from other payment-related products and services. Our net revenues are classified into five categories: domestic assessments, cross-border volume fees, transaction processing, other revenues and rebates and incentives (contra-revenue).

See "Management's Discussion and Analysis of Financial Condition and Results of Operations - Revenue" in Part II, Item 7 and Note 3, Revenue for more detail about our revenue, GDV, processed transactions and our other payment-related products and services.

Intellectual Property

We own a number of valuable trademarks that are essential to our business, including Mastercard, Maestro and Cirrus, through one or more affiliates. We also own numerous other trademarks covering various brands, programs and services offered by us to support our payment programs. Trademark and service mark registrations are generally valid indefinitely as long as they are used and/or properly maintained. Through license agreements with our customers, we authorize the use of our trademarks on a royalty-free basis in connection with our customers' issuing and merchant acquiring businesses. In addition, we own a number of patents and patent applications relating to payment solutions, transaction processing, smart cards, contactless, mobile, biometrics, AI, security systems, blockchain and other technologies, which are important to our business operations. These patents expire at varying times depending on the jurisdiction and filing date.

Competition

We face competition in all categories of payment, including:

- cash and checks
- card-based payments, including credit, charge, debit, ATM and prepaid products, as well as limited-use products such as private label
- contactless, mobile and e-commerce payments, as well as cryptocurrency
- other electronic payments, including ACH payments and wire transfers

We face a number of competitors both within and outside of the global payments industry:

- Cash, Check and Legacy ACH. Cash and checks continue to represent one of the most widely used forms of payment. However, an even larger share of payments on a U.S. dollar volume basis are made via legacy, or "slow," ACH platforms.
- General Purpose Payment Networks. We compete worldwide with payment networks such as Visa, American Express, JCB, China UnionPay and Discover, among others. Some competitors have more market share than we do in certain jurisdictions. Some also have different business models that may provide an advantage in pricing, regulatory compliance burdens or otherwise. Globally, financial institutions may issue both Mastercard and Visa-branded payment products, and we compete with Visa for business on the basis of individual portfolios or programs. In addition, a number of our customers issue American Express and/or Discover-branded payment cards in a manner consistent with a four-party system. We continue to face intense competitive pressure on the prices we charge our issuers and acquirers, and we seek to enter into business agreements with them through which we offer incentives and other support to issue and promote our payment products.
- Debit and Local Networks. We compete with ATM and point-of-sale debit networks in various countries. In addition, in many countries outside of the United States, local
 debit brands serve as the main domestic brands, while our brands are used mostly to enable cross-border transactions (typically representing a small portion of overall
 transaction volume). Certain jurisdictions have also created domestic card schemes focused mostly on debit. In addition, several governments are promoting, or
 considering promoting, local networks for domestic switching. See "Risk Factors" in Part I, Item 1A for a more detailed discussion of the risks related to payments system
 regulation and government actions that may prevent us from competing effectively.
- Real-time Account-based Payment Systems. We face competition in the real-time account-based payment space from other companies that provide infrastructure, applications and services to support these payment solutions.
- Alternative Payments Systems and New Entrants. As the global payments industry becomes more complex, we face increasing competition from alternative payment systems and emerging payment providers. Many of these providers, who in many circumstances can also be our partners or customers, have developed payments systems focused on online activity in e-commerce and mobile channels (in some cases, expanding to other channels), and may process payments using in-house account transfers, real-time account-based payment networks or global or local networks. Examples include digital wallet providers (such as Paytm, PayPal, Alipay and Amazon), POS financing/buy now pay later providers (such as Klarna), mobile operator services, mobile phone-based money transfer and microfinancing services (such as mPesa), handset manufacturers and cryptocurrencies. We also compete with merchants and governments.
- Value-Added Products and Service Providers. We face competition from companies that provide alternatives to our value-added products and services, including
 information services and consulting firms that provide consulting services and insights to financial institutions, merchants and governments and technology companies
 that provide cyber and fraud solutions, as well as companies that compete against us as providers of loyalty and program management solutions. Regulatory initiatives
 could also lead to increased competition in this space.

Mastercard is a trusted intermediary in a complex system. Our competitive advantages include our:

- globally recognized brands
- highly adaptable global acceptance network built over more than 50 years which can reach a variety of parties enabling payments
- global payments network with world-class operating performance
- expertise in real-time account-based payments and open banking
- development and adoption of innovative products and digital solutions
- safety and security solutions embedded in our networks
- analytics insights and consulting services that help issuers and merchants optimize their payments and related businesses
- loyalty solutions that enhance the payments value proposition for issuers and merchants

- ability to serve a broad array of participants in global payments due to our expanded on-soil presence in individual markets and a heightened focus on working with governments
- world class talent and culture, with a focus on inclusion and being a "force for good"

Government Regulation

General. Government regulation impacts key aspects of our business. We are subject to regulations that affect the payments industry in the many countries in which our integrated products and services are used. We are committed to comply with all applicable laws and regulations and implement policies, procedures and programs designed to promote compliance. We coordinate globally while acting locally and leverage our relationships to manage the effects of regulation on us. See "Risk Factors" in Part I, Item 1A for more detail and examples of the regulation to which we are subject.

Payments Oversight and Regulation. Central banks and other regulators in several jurisdictions around the world either have, or are seeking to establish, formal oversight over the payments industry, as well as authority to regulate certain aspects of the payment systems in their countries. Such authority has resulted in regulation of various aspects of our business. In the European Union, Mastercard is subject to systemic importance regulation, which includes various requirements we must meet, including obligations related to governance and risk management. In the U.K., the Bank of England designated Vocalink, our real-time account-based payment network platform, to be a "specified service provider", which includes supervisions and examination requirements. In addition, European Union legislation requires us to separate our scheme activities (brand, products, franchise and licensing) from our switching activities and other processing in terms of how we go to market, make decisions and organize our structure.

Interchange Fees. Interchange fees that support the function and value of four-party payments systems like ours are being reviewed or challenged in various jurisdictions around the world via legislation to regulate interchange fees, competition-related regulatory proceedings, central bank regulation and litigation. Examples include statutes in the United States that cap debit interchange for certain regulated activities, our settlement with the European Commission resolving its investigation into our interregional interchange fees and the European Union legislation capping consumer credit and debit interchange fees on payments issued and acquired within the European Economic Area (the "EEA"). For more detail, see "Risk Factors - Other Regulation" in Part I, Item 1A and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8.

Preferential or Protective Government Actions. Some governments have taken action to provide resources, preferential treatment or other protection to selected domestic payments and processing providers, as well as to create their own national providers. For example, governments in some countries mandate switching of domestic payments either entirely in that country or by only domestic companies. In China, we are currently excluded from domestic switching and are seeking market access, which is uncertain and subject to a number of factors, including receiving regulatory approval. We are in active discussions to explore different solutions.

Anti-Money Laundering, Counter Financing of Terrorism, Economic Sanctions and Anti-Corruption. We are subject to anti-money laundering ("AML") and counter-financing of terrorism ("CFT") laws and regulations globally, including the U.S. Bank Secrecy Act and the USA PATRIOT Act, as well as the various economic sanctions programs, including those imposed and administered by the U.S. Office of Foreign Assets Control ("OFAC"). We have implemented a comprehensive AML/CFT program, comprised of policies, procedures and internal controls, including the designation of a compliance officer, which is designed to prevent our payment network from being used to facilitate money laundering and other illicit activity and to address these legal and regulatory requirements and assist in managing money laundering and terrorist financing risks. The economic sanctions programs administered by OFAC restrict financial transactions and other dealings with certain countries and geographies (specifically Crimea, Cuba, Iran, North Korea and Syria) and with persons and entities included in OFAC sanctions lists including its list of Specially Designated Nationals and Blocked Persons (the "SDN List"). We take measures to prevent transactions that do not comply with OFAC and other applicable sanctions, including establishing a risk-based compliance program that has policies, procedures and controls designed to prevent us from having unlawful business dealings with prohibited countries, regions, individuals or entities. As part of this program, we obligate issuers and acquirers to comply with their local sanctions obligations and the U.S. sanctions programs, including requiring the screening of account holders and merchants, respectively, against OFAC sanctions lists (including the SDN List). Iran and Syria have been identified by the U.S. State Department as terrorist-sponsring states, and we have no offices, subsidiaries or affiliated entities located in these countries and do not license entities domiciled there. We are also subject to anti

Financial Sector Oversight. We are or may be subject to regulations related to our role in the financial industry and our relationship with our financial institution customers. In addition, we are or may be subject to regulation by a number of agencies charged with

oversight of, among other things, consumer protection, financial and banking matters. The regulators have supervisory and independent examination authority as well as enforcement authority that we may be subject to because of the services we provide to financial institutions that issue and acquire our products.

Issuer Practice Legislation and Regulation. Our customers are subject to numerous regulations and investigations applicable to banks, financial institutions and others in their capacity as issuers and otherwise, impacting us as a consequence. Additionally, regulations such as the revised Payment Services Directive (commonly referred to as "PSD2") in the EEA require financial institutions to provide third-party payment-processors access to consumer payment accounts, enabling them to route transactions away from Mastercard products and provide payment initiation and account information services directly to consumers who use our products. PSD2 also requires a new standard for authentication of transactions, which necessitates additional verification information from consumers to complete transactions. This may increase the number of transactions that consumers abandon if we are unable to ensure a frictionless authentication experience under the new standards.

Regulation of Internet and Digital Transactions. Various jurisdictions have enacted or have proposed regulation related to internet transactions. The legislation applies to payments system participants, including us and our U.S. customers, and is implemented through a federal regulation. We may also be impacted by evolving laws surrounding gambling, including fantasy sports. Certain jurisdictions are also considering regulatory initiatives in digital-related areas that could impact us, such as cyber-security and copyright and trademark infringement.

Privacy, Data and Information Security. Aspects of our operations or business are subject to increasingly complex privacy and data protection laws in the United States, the European Union and elsewhere around the world. For example, in the United States, we and our customers are respectively subject to Federal Trade Commission and federal banking agency information safeguarding requirements under the Gramm-Leach-Bliley Act that require the maintenance of a written, comprehensive information security program. In the European Union, we are subject to the General Data Protection Regulation (the "GDPR"), which requires a comprehensive privacy and data protection program to protect the personal and sensitive data of EEA residents. A number of regulators and policymakers around the globe are using the GDPR as a reference to adopt new or updated privacy and data protection laws, including in the U.S. (California), Argentina, Brazil, Canada, Chile, India, Indonesia and Kenya. Some jurisdictions, such as India, are currently considering adopting or have adopted "data localization" requirements, which mandate the collection, processing, and/or storage of data within their borders. We believe that various forms of data localization requirements are under consideration in other countries and jurisdictions, including the European Union. Due to increasing data collection and data flows, numerous data breaches and security incidents as well as the use of emerging technologies such as artificial intelligence, regulations in this area are constantly evolving with regulatory and legislative authorities in numerous parts of the world adopting proposals to regulate data and protect information. In addition, the interpretation and application of these privacy and data protection laws are often uncertain and in a state of flux, thus requiring constant monitoring for compliance.

Additional Regulatory Developments. Various regulatory agencies also continue to examine a wide variety of issues that could impact us, including evolving laws surrounding marijuana, prepaid payroll cards, virtual currencies, identity theft, account management guidelines, disclosure rules, security and marketing that would impact our customers directly.

Additional Information

Mastercard Incorporated was incorporated as a Delaware corporation in May 2001. We conduct our business principally through our principal operating subsidiary, Mastercard International Incorporated, a Delaware non-stock (or membership) corporation that was formed in November 1966. For more information about our capital structure, including our Class A common stock (our voting stock) and Class B common stock (our non-voting stock), see Note 16 (Stockholders' Equity) to the consolidated financial statements included in Part II, Item 8.

Website and SEC Reports

Our internet address is www.mastercard.com. From time to time, we may use our corporate website as a channel of distribution of material company information. Financial and other material information is routinely posted and accessible on the investor relations section of our corporate website. You can also visit "Investor Alerts" in the investor relations section to enroll your email address to automatically receive email alerts and other information about Mastercard.

Our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports are available for review, without charge, on the investor relations section of our corporate website as soon as reasonably practicable after they are filed with, or furnished to, the U.S. Securities and Exchange Commission (the "SEC"). The information contained on our corporate website is not incorporated by reference into this Report. Our filings are also available electronically from the SEC at www.sec.gov.

Item 1A. Risk factors

RISK HIGHLIGHTS						
Legal and Regulatory		Business an	d Operations			
Payments Industry Regulation		COVID-19	Global Economic and Political Environment			
Preferential or Protective Government Actions		Competition and Technology	Brand and Reputational Impact			
Privacy, Data and Security		Information Security and Service Disruptions	Talent and Culture			
Other Regulation		Stakeholder Relationships	Acquisitions			
Litigation	Settlement and Third-Party Obligations					

Legal and Regulatory

Payments Industry Regulation

Global regulatory and legislative activity directly related to the payments industry may have a material adverse impact on our overall business and results of operations.

Regulators increasingly seek to regulate certain aspects of payments systems such as ours, or establish or expand their authority to do so. Many jurisdictions have enacted such regulations, establishing, and potentially further expanding, obligations or restrictions with respect to the types of products and services that we may offer, the countries in which our integrated products and services may be used, the way we structure and operate our business and the types of consumers and merchants who can obtain or accept our products or services. New regulations and oversight could also relate to our clearing and settlement activities (including risk management policies and procedures, collateral requirements, participant default policies and procedures, the ability to complete timely switching of financial transactions, and capital and financial resource requirements). Several jurisdictions have also inquired about the network fees we charge to our customers (typically as part of broader market reviews of retail payments). In addition, several central banks or similar regulatory bodies around the world have increased, or are seeking to increase, their formal oversight of the electronic payments industry. In some cases, we have been designated as a "systemically important payment system", and other regulators may consider designating us as systemically important or in a similar category resulting in heightened regulatory oversight. These obligations, designations and restrictions may further expand and could conflict with each other as more jurisdictions impose oversight of payment systems. Moreover, as regulators around the world increasingly look to replicate similar regulation of payments and other regulation of similar or related products (for example, debit regulations could lead to regulation of credit products). As a result, the risks to our business created by any one new law or regulation are magnified by the potential it has to be replicated in other jurisdictions or involve other products within any parti

Increased regulation and oversight of payment systems may result in costly compliance burdens or otherwise increase our costs. As a result, issuers and acquirers could be less willing to participate in our payments system, reduce the benefits offered in connection with the use of our products (making our products less desirable to consumers), reduce the volume of domestic and cross-border transactions or other operational metrics, disintermediate us, impact our profitability and limit our ability to innovate or offer differentiated products and services, all of which could materially and adversely impact our financial performance. In addition, any regulation that is enacted related to the type and level of network fees we charge our customers could also materially and adversely

impact our results of operations. Regulators could also require us to obtain prior approval for changes to our system rules, procedures or operations, or could require customization with regard to such changes, which could negatively impact us. Such changes could lead to new or different criteria for participation in and access to our payments system by financial institutions or other customers. Moreover, failure to comply with the laws and regulations to which we are subject could result in fines, sanctions, civil damages or other penalties, which could materially and adversely affect our overall business and results of operations, as well as have an impact on our brand and reputation.

Increased regulatory, legislative and litigation activity with respect to interchange rates could have an adverse impact on our business.

Interchange rates are a significant component of the costs that merchants pay in connection with the acceptance of our products. Although we do not earn revenues from interchange, interchange rates can impact the volume of transactions we see on our payment products. If interchange rates are too high, merchants may stop accepting our products or route transactions away from our network. If interchange rates are too low, issuers may stop promoting our integrated products and services, eliminate or reduce loyalty rewards programs or other account holder benefits (e.g., free checking or low interest rates on balances), or charge fees to account holders (e.g., annual fees or late payment fees).

Governments and merchant groups in a number of countries have implemented or are seeking interchange rate reductions through legislation, competition law, central bank regulation and litigation. See "Business - Government Regulation" in Part I, Item 1 and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8 for more details.

If issuers cannot collect or we are forced to reduce interchange rates, issuers may be less willing to participate in our four-party payments system, or may reduce the benefits offered in connection with the use of our products, reducing the attractiveness of our products to consumers. In particular, changes to interregional interchange fees as a result of the resolution of the European Commission's investigation could impact our cross-border transaction activity disproportionately versus competitors that are not subject to similar reductions. These and other impacts could lower transaction volumes, and/or make proprietary three-party networks or other forms of payment more attractive. Issuers could reduce the benefits associated with our products or choose to charge higher fees to consumers to attempt to recoup a portion of the costs incurred for their services. In addition, issuers could seek a fee reduction from us to decrease the expense of their payment programs, particularly if regulation has a disproportionate impact on us as compared to our competitors in terms of the fees we can charge. This could make our products less desirable to consumers, reduce the volume of transactions and our profitability, and limit our ability to innovate or offer differentiated products.

We are devoting substantial resources to defending our right to establish interchange rates in regulatory proceedings, litigation and legislative activity. The potential outcome of any of these activities could have a more positive or negative impact on us relative to our competitors. If we are ultimately unsuccessful in defending our ability to establish interchange rates, any resulting legislation, regulation and/or litigation may have a material adverse impact on our overall business and results of operations. In addition, regulatory proceedings and litigation could result (and in some cases has resulted) in us being fined and/or having to pay civil damages, the amount of which could be material.

Limitations on our ability to restrict merchant surcharging could materially and adversely impact our results of operations.

We have historically implemented policies, referred to as no-surcharge rules, in certain jurisdictions, including the United States, that prohibit merchants from charging higher prices to consumers who pay using our products instead of other means. Authorities in several jurisdictions have acted to end or limit the application of these no-surcharge rules (or indicated interest in doing so). Additionally, we have modified our no-surcharge rules to permit U.S. merchants to surcharge credit cards, subject to certain limitations. It is possible that over time merchants in some or all merchant categories in these jurisdictions may choose to surcharge as permitted by the rule change. This could result in consumers viewing our products less favorably and/or using alternative means of payment instead of electronic products, which could result in a decrease in our overall transaction volumes, and which in turn could materially and adversely impact our results of operations.

Preferential or Protective Government Actions

Preferential and protective government actions related to domestic payment services could adversely affect our ability to maintain or increase our revenues.

Governments in some countries have acted, or in the future may act, to provide resources, preferential treatment or other protection to selected national payment and switching providers, or have created, or may in the future create, their own national provider. This action may displace us from, prevent us from entering into, or substantially restrict us from participating in, particular geographies, and may prevent us from competing effectively against those providers. For example:

 Governments in some countries have implemented, or may implement, regulatory requirements that mandate switching of domestic payments either entirely in that country or by only domestic companies.

- Some jurisdictions are considering requirements to collect, process and/or store data within their borders, as well as prohibitions on the transfer of data abroad, leading to technological and operational implications.
- Geopolitical events and resulting OFAC sanctions, adverse trade policies or other types of government actions could lead jurisdictions affected by those sanctions to take
 actions in response that could adversely affect our business.
- Regional groups of countries are considering, or may consider, efforts to restrict our participation in the switching of regional transactions.

Such developments prevent us from utilizing our global switching capabilities for domestic or regional customers. Our inability to effect change in, or work with, these jurisdictions could adversely affect our ability to maintain or increase our revenues and extend our global brand.

Additionally, some jurisdictions have implemented, or may implement, foreign ownership restrictions, which could potentially have the effect of forcing or inducing the transfer of our technology and proprietary information as a condition of access to their markets. Such restrictions could adversely impact our ability to compete in these markets.

Privacy, Data and Security

Regulation of privacy, data, security and the digital economy could increase our costs, as well as negatively impact our growth.

We are subject to increasingly complex regulations related to privacy, data and information security in the jurisdictions in which we do business. These regulations could result in negative impacts to our business. As we continue to develop integrated and personalized products and services to meet the needs of a changing marketplace, as well as acquire new companies, we have expanded our information profile through the collection of additional data from additional sources and across multiple channels. This expansion has amplified the impact of these regulations on our business. Regulation of privacy and data and information security often times require monitoring of and changes to our data practices in regard to the collection, use, disclosure, storage, transfer and/or security of personal and sensitive information, as well as increased care in our data management, governance and quality practices. While we make every effort to comply with all regulatory requirements and we deploy a privacy-by-design and data-by-design approach to all of our product development, the speed and pace of change may not allow us to meet rapidly evolving expectations. We are also subject to enhanced compliance and operational requirements in the European Union, and policymakers around the globe are using these requirements as a reference to adopt new or updated privacy laws that could result in similar or stricter requirements in other jurisdictions. Some jurisdictions are also considering requirements to collect, process and/or store data within their borders, as well as prohibitions on the transfer of data abroad, leading to technological and operational implications. Other jurisdictions are considering adopting sector-specific regulations for the payments industry, including forced data sharing requirements could result in fines, sanctions or other penalties, which could materially and adversely affect our results of operations and overall business, as well as have an impact on our reputation.

New requirements or interpretations of existing requirements in these areas, or the development of new regulatory schemes related to the digital economy in general, may also increase our costs and/or restrict our ability to leverage data for innovation. This could impact the products and services we offer and other aspects of our business, such as fraud monitoring, the need for improved data management, governance and quality practices, the development of information-based products and solutions, and technology operations. In addition, these requirements may increase the costs to our customers of issuing payment products, which may, in turn, decrease the number of our payment products that they issue. Moreover, due to account data compromise events and privacy abuses by other companies, as well as the disclosure of monitoring activities by certain governmental agencies in combination with the use of artificial intelligence and new technologies, there has been heightened legislative and regulatory scrutiny around the world that could lead to further regulation and requirements and/or future enforcement. Those developments have also raised public attention on companies' data practices and have changed consumer and societal expectations for enhanced privacy and data protection. Any of these developments could materially and adversely affect our overall business and results of operations.

In addition, fraudulent activity and increasing cyberattacks have encouraged legislative and regulatory intervention, which could damage our reputation and reduce the use and acceptance of our integrated products and services or increase our compliance costs. Criminals are using increasingly sophisticated methods to capture consumer personal information to engage in illegal activities such as counterfeiting or other fraud. As outsourcing and specialization become common in the payments industry, there are more third parties involved in processing transactions using our payment products. While we are taking measures to make card and digital payments more secure, increased fraud levels involving our integrated products and services, or misconduct or negligence by third parties switching or otherwise servicing our integrated products and services, could lead to legislative or regulatory intervention, such as enhanced security requirements and liabilities, as well as damage to our reputation.

Other Regulation

Regulations that directly or indirectly apply to Mastercard as a result of our participation in the global payments industry may materially and adversely affect our overall business and results of operations.

We are subject to regulations that affect the payments industry in the many jurisdictions in which our integrated products and services are used. Many of our customers are also subject to regulations applicable to banks and other financial institutions that, at times, consequently affect us. Regulation of the payments industry, including regulations applicable to us and our customers, has increased significantly in the last several years. See "Business - Government Regulation" in Part I, Item 1 for a detailed description of such regulation and related legislation. Examples include:

- Anti-Money Laundering, Counter Financing of Terrorism, Economic Sanctions and Anti-Corruption We are subject to AML and CFT laws and regulations globally. Economic sanctions programs administered by OFAC restrict financial transactions and other dealings with certain countries and geographies, and persons and entities. We are also subject to anti-corruption laws and regulations globally, which, among other things, generally prohibit giving or offering payments or anything of value for the purpose of improperly influencing a business decision or to gain an unfair business advantage.
- Account-based Payment Systems In the U.K., aspects of our Vocalink business are subject to the U.K. payment system oversight regime and are directly overseen by the Bank of England.
- Issuer Practice Legislation and Regulation Certain regulations (such as PSD2 in the EEA) may impact various aspects of our business. For example, PSD2's strong
 authentication requirement could increase the number of transactions that consumers abandon if we are unable to secure a frictionless authentication experience under
 the new standards. An increase in the rate of abandoned transactions could adversely impact our volumes or other operational metrics.

Increased regulatory focus on us, such as in connection with the matters discussed above, may result in costly compliance burdens and/or may otherwise increase our costs. Similarly, increased regulatory focus on our customers may cause such customers to reduce the volume of transactions processed through our systems, or may otherwise impact the competitiveness of our products. Actions by regulators could influence other organizations around the world to enact or consider adopting similar measures, amplifying any potential compliance burden. Finally, failure to comply with the laws and regulations discussed above to which we are subject could result in fines, sanctions or other penalties. In particular, a violation and subsequent judgment or settlement against us, or those with whom we may be associated, under economic sanctions and AML, CFT, and anti-corruption laws could subject us to substantial monetary penalties, damages, and/or have a significant reputational impact. Each instance may individually or collectively materially and adversely affect our financial performance and/or our overall business and results of operations, as well as have an impact on our reputation.

We could be subject to adverse changes in tax laws, regulations and interpretations or challenges to our tax positions.

We are subject to tax laws and regulations of the U.S. federal, state and local governments as well as various non-U.S. jurisdictions. Potential changes in existing tax laws, including future regulatory guidance, may impact our effective income tax rate and tax payments. There can be no assurance that changes in tax laws or regulations, both within the U.S. and the other jurisdictions in which we operate, will not materially and adversely affect our effective income tax rate, tax payments, financial condition and results of operations. Similarly, changes in tax laws and regulations that impact our customers and counterparties or the economy generally may also impact our financial condition and results of operations.

In addition, tax laws and regulations are complex and subject to varying interpretations, and any significant failure to comply with applicable tax laws and regulations in all relevant jurisdictions could give rise to substantial penalties and liabilities. Any changes in enacted tax laws, rules or regulatory or judicial interpretations; any adverse outcome in connection with tax audits in any jurisdiction; or any change in the pronouncements relating to accounting for income taxes could materially and adversely impact our effective income tax rate, tax payments, financial condition and results of operations.

Litigation

Liabilities we may incur or limitations on our business related to any litigation or litigation settlements could materially and adversely affect our results of operations.

We are a defendant on a number of civil litigations and regulatory proceedings and investigations, including among others, those alleging violations of competition and antitrust law and those involving intellectual property claims. See Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8 for more details regarding the allegations contained in these complaints and the status of these proceedings. In the event we are found liable in any material litigations or proceedings, particularly in the event we may be found liable in a large class-action lawsuit or on the basis of an antitrust claim entitling the plaintiff to treble damages or under which we were jointly and severally liable, we could be subject to significant damages, which could have a material adverse impact on our overall business and results of operations.

Certain limitations have been placed on our business in recent years because of litigation and litigation settlements, such as changes to our no-surcharge rule in the United States. Any future limitations on our business resulting from litigation or litigation settlements could impact our relationships with our customers, including reducing the volume of business that we do with them, which may materially and adversely affect our overall business and results of operations.

Business and Operations

COVID-19

The global COVID-19 pandemic and containment measures taken in response to it have adversely impacted our business, results of operations and financial condition, and may continue to do so depending on future developments, which are uncertain.

Global health concerns relating to the COVID-19 outbreak have impacted the macroeconomic environment, and the outbreak has significantly increased economic uncertainty. The outbreak resulted in governments in countries across the globe implementing measures to try to contain the virus, such as travel restrictions, social distancing, and restrictions on business operations which have impacted consumers and businesses. These measures have adversely impacted and may further impact our workforce and operations and the operations of our customers, suppliers and business partners. While some of these measures have eased in certain jurisdictions, others have remained in place. The extent to which current measures are removed or new measures are put in place will depend how the pandemic evolves, as well as the progress of the global roll-out of vaccines.

The spread of COVID-19 has caused us to modify our business practices (including employee travel, employee work locations, and working in a remote environment), and we may take further actions as required by government authorities or that are in the best interests of our employees, customers and business partners. There is no certainty that such measures will be sufficient to mitigate the risks posed by the virus or otherwise be satisfactory to government authorities.

The COVID-19 pandemic has adversely impacted our business, results of operations and financial condition. There are no comparable recent events which may provide guidance as to the effect of the spread of COVID-19 and a global pandemic, and, as a result, the ultimate impact of COVID-19 or a similar health epidemic is highly uncertain and subject to change. The extent to which COVID-19 further impacts our business, results of operations and financial condition will depend on future developments, which are uncertain, including, but not limited to, the duration and spread of the outbreak, its severity, the actions to contain the virus or treat its impact, and how quickly and to what extent normal economic and operating conditions can resume. Even after the COVID-19 pandemic has subsided, we may continue to experience materially adverse impacts to our business and our result of operations as a result of its global economic impact, including any recession that has occurred or may occur in the future.

Competition and Technology

Substantial and intense competition worldwide in the global payments industry may materially and adversely affect our overall business and results of operations.

The global payments industry is highly competitive. Our payment programs compete against all forms of payment, including cash and checks; electronic, mobile and ecommerce payment platforms; cryptocurrencies; ACH payment services; and other payments networks, which can have several competitive impacts on our business:

- Some of our traditional competitors, as well as alternative payment service providers, may have substantially greater financial and other resources than we have, may
 offer a wider range of programs and services than we offer or may use more effective advertising and marketing strategies to achieve broader brand recognition or
 merchant acceptance than we have.
- Our ability to compete may also be affected by the outcomes of litigation, competition-related regulatory proceedings, central bank activity and legislative activity.

Certain of our competitors operate three-party payments systems with direct connections to both merchants and consumers and these competitors may derive competitive advantages from their business models. If we continue to attract more regulatory scrutiny than these competitors because we operate a four-party system, or we are regulated because of the system we operate in a way in which our competitors are not, we could lose business to these competitors. See "Business - Competition" in Part I, Item 1.

If we are not able to differentiate ourselves from our competitors, drive value for our customers and/or effectively align our resources with our goals and objectives, we may not be able to compete effectively against these threats. Our competitors may also introduce their own innovative programs and services that adversely impact our growth. Beyond our traditional competitors, we also compete against new entrants that have developed alternative payments systems, e-commerce payments systems and payments systems for mobile devices, as well as physical store locations. A number of these new entrants rely principally on the Internet to support their services and may enjoy lower costs than we do, which could put us at a competitive disadvantage. Our failure to compete effectively against any of the foregoing competitive threats could materially and adversely affect our overall business and results of operations.

Disintermediation from stakeholders both within and outside of the payments value chain could harm our business.

As the payments industry continues to develop and change, we face disintermediation and related risks, including:

- Parties that process our transactions in certain countries may try to eliminate our position as an intermediary in the payment process. For example, merchants could switch (and in some cases are switching) transactions directly with issuers. Additionally, processors could process transactions directly between issuers and acquirers. Large scale consolidation within processors could result in these processors developing bilateral agreements or in some cases switching the entire transaction on their own network, thereby disintermediating us.
- Regulation (such as PSD2 in the EEA) may disintermediate issuers by enabling third-party providers opportunities to route payment transactions away from our network
 and products and towards other forms of payment by offering account information or payment initiation services directly to those who currently use our products. This
 may also allow these processors to commoditize the data that are included in the transactions. If our customers are disintermediated in their business, we could face
 diminished demand for our integrated products and services.
- Although we partner with fintechs and technology companies (such as digital players and mobile providers) that leverage our technology, platforms and networks to
 deliver their products, they could develop platforms or networks that disintermediate us from digital payments and impact our ability to compete in the digital economy.
 This risk is heightened when we have relationships with these entities where we share Mastercard data. While we share this data in a controlled manner subject to
 applicable anonymization and privacy and data standards, without proper oversight we could give the partner a competitive advantage.
- Competitors, customers, fintechs, technology companies, governments and other industry participants may develop products that compete with or replace value-added
 products and services we currently provide to support our switched transaction and payment offerings. These products could replace our own switching and payments
 offerings or could force us to change our pricing or practices for these offerings. In addition, governments that develop or encourage the creation of national payment
 platforms may promote their platforms in such a way that could put us at a competitive disadvantage in those markets, or require us to compete differently.
- Participants in the payments industry may merge, create joint ventures or form other business combinations that may strengthen their existing business services or create
 new payment products and services that compete with our products and services.

Our failure to compete effectively against any of the foregoing competitive threats could materially and adversely affect our overall business and results of operations.

Continued intense pricing pressure may materially and adversely affect our overall business and results of operations.

In order to increase transaction volumes, enter new markets and expand our Mastercard-branded cards and enabled products and services, we seek to enter into business agreements with customers through which we offer incentives, pricing discounts and other support that promote our products. In order to stay competitive, we may have to increase the amount of these incentives and pricing discounts. We continue to experience pricing pressure. The demand from our customers for better pricing arrangements and greater rebates and incentives moderates our growth. We may not be able to continue our expansion strategy to switch additional transaction volumes or to provide additional services to our customers at levels sufficient to compensate for such lower fees or increased costs in the future, which could materially and adversely affect our overall business and results of operations. In addition, increased pressure on prices increases the importance of cost containment and productivity initiatives in areas other than those relating to customer incentives.

In the future, we may not be able to enter into agreements with our customers if they require terms that we are unable or unwilling to offer, and we may be required to modify existing agreements in order to maintain relationships and to compete with others in the industry. Some of our competitors are larger and have greater financial resources than we do and accordingly may be able to charge lower prices to our customers. In addition, to the extent that we offer discounts or incentives under such agreements, we will need to further increase transaction volumes or the amount of services provided thereunder in order to benefit incrementally from such agreements and to increase revenue and profit, and we may not be successful in doing so, particularly in the current regulatory environment. Our customers also may implement cost reduction initiatives that reduce or eliminate payment product marketing or increase requests for greater incentives or greater cost stability. These factors could have a material adverse impact on our overall business and results of operations.

Rapid and significant technological developments and changes could negatively impact our overall business and results of operations or limit our future growth.

The payments industry is subject to rapid and significant technological changes, which can impact our business in several ways:

- Technological changes, including continuing developments of technologies in the areas of smart cards and devices, contactless and mobile payments, e-commerce, cryptocurrency and block chain technology, machine learning and AI, could result in new technologies that may be superior to, or render obsolete, the technologies we currently use in our programs and services. Moreover, these changes could result in new and innovative payment methods and products that could place us at a competitive disadvantage and that could reduce the use of our products.
- We rely in part on third parties, including some of our competitors and potential competitors, for the development of and access to new technologies. The inability of
 these companies to keep pace with technological developments, or the acquisition of these companies by competitors, could negatively impact our offerings.
- Our ability to develop and adopt new services and technologies may be inhibited by industry-wide solutions and standards (such as those related to EMV, tokenization or
 other safety and security technologies), and by resistance from customers or merchants to such changes.
- Our ability to develop evolving systems and products may be inhibited by any difficulty we may experience in attracting and retaining technology experts.
- Our ability to adopt these technologies can also be inhibited by intellectual property rights of third parties. We have received, and we may in the future receive, notices or inquiries from patent holders (for example, other operating companies or non-practicing entities) suggesting that we may be infringing certain patents or that we need to license the use of their patents to avoid infringement. Such notices may, among other things, threaten litigation against us or our customers or demand significant license fees.
- Our ability to develop new technologies and reflect technological changes in our payments offerings will require resources, which may result in additional expenses.
- We work with fintechs and technology companies (such as digital players and mobile providers) that use our technology to enhance payment safety and security and to
 deliver their payment-related products and services quickly and efficiently to consumers. Our inability to keep pace technologically could negatively impact the willingness
 of these customers to work with us, and could encourage them to use their own technology and compete against us.
- Regulatory or government requirements could require us to host and deliver certain products and services on-soil in certain markets, which would require us to alter our technology and delivery model, potentially resulting in additional expenses.
- Various central banks are experimenting with digital currencies called Central Bank Digital Currencies (CBDC). CBDCs may be launched with their own networks to transfer money between participants. Policy and design considerations that governments adopt could impact the extent of our role in facilitating CBDC-based payment transactions, potentially impacting the transactions that we may process over our network.

We cannot predict the effect of technological changes on our business, and our future success will depend, in part, on our ability to anticipate, develop or adapt to technological changes and evolving industry standards. Failure to keep pace with these technological developments or otherwise bring to market products that reflect these technologies could lead to a decline in the use of our products, which could have a material adverse impact on our overall business and results of operations.

Operating a real-time account-based payment network presents risks that could materially affect our business.

U.K. regulators have designated Vocalink, our real-time account-based payment network platform, to be a "specified service provider" and regulators in other countries may in the future expand their regulatory oversight of real-time account-based payment systems in similar ways. In addition, any prolonged service outage on this network could result in quickly escalating impacts, including potential intervention by the Bank of England and significant reputational risk to Vocalink and us. For a discussion of the regulatory risks related to our real-time account-based payment platform, see our risk factor in "Risk Factors - Payments Industry Regulation" in this Part I, Item 1A. Furthermore, the complexity of this payment technology requires careful management to address security vulnerabilities that are different from those faced on our core network. Operational difficulties, such as the temporary unavailability of our services or products, or security breaches on our real-time account-based payment network could cause a loss of business for these products and services, result in potential liability for us and adversely affect our reputation.

Working with new customers and end users as we expand our integrated products and services can present operational and onboarding challenges, be costly and result in reputational damage if the new products or services do not perform as intended.

The payments markets in which we compete are characterized by rapid technological change, new product introductions, evolving industry standards and changing customer and consumer needs. In order to remain competitive and meet the needs of the

payments markets, we are continually involved in diversifying our integrated products and services. These efforts carry the risks associated with any diversification initiative, including cost overruns, delays in delivery and performance problems. These projects also carry risks associated with working with different types of customers, for example organizations such as corporations that are not financial institutions and non-governmental organizations ("NGOs"), and end users other than those we have traditionally worked with. These differences may present new operational challenges in the development and implementation of our new products or services. These new customers are typically less regulated, and as a result, enhanced infrastructure and monitoring is required.

Our failure to deliver these integrated products and services could make our other integrated products and services less desirable to customers, or put us at a competitive disadvantage. In addition, if there is a delay in the implementation of our products or services or if our products or services do not perform as anticipated, or we are unable to adequately anticipate risks related to new types of customers, we could face additional regulatory scrutiny, fines, sanctions or other penalties, which could materially and adversely affect our overall business and results of operations, as well as negatively impact our brand and reputation.

Information Security and Service Disruptions

Information security incidents or account data compromise events could disrupt our business, damage our reputation, increase our costs and cause losses.

Information security risks for payments and technology companies such as ours have significantly increased in recent years in part because of the proliferation of new technologies, the use of the Internet and telecommunications technologies to conduct financial transactions, and the increased sophistication and activities of organized crime, hackers, terrorists and other external parties. These threats may derive from fraud or malice on the part of our employees or third parties, or may result from human error or accidental technological failure. These threats include cyber-attacks such as computer viruses, malicious code, phishing attacks or information security breaches and could lead to the misappropriation of consumer account and other information and identity theft. The advent of the global COVID-19 pandemic has resulted in a significant rise in these types of threats due to a significant portion of our workforce working from home in a mostly remote environment.

Our operations rely on the secure processing, transmission and storage of confidential, proprietary and other information and technology in our computer systems and networks, as well as the systems of our third-party providers. Our customers and other parties in the payments value chain, as well as account holders, rely on our digital technologies, computer systems, software and networks to conduct their operations. In addition, to access our integrated products and services, our customers and account holders increasingly use personal smartphones, tablet PCs and other mobile devices that may be beyond our control. We, like other financial technology organizations, routinely are subject to cyber-threats and our technologies, systems and networks, as well as the systems of our third-party providers, have been subject to attempted cyberattacks. Because of our position in the payments value chain, we believe that we are likely to continue to be a target of such threats and attacks. Additionally, geopolitical events and resulting government activity could also lead to information security threats and attacks by affected jurisdictions and their sympathizers.

To date, we have not experienced any material impact relating to cyber-attacks or other information security breaches. However, future attacks or breaches could lead to security breaches of the networks, systems (including third-party provider systems) or devices that our customers use to access our integrated products and services, which in turn could result in the unauthorized disclosure, release, gathering, monitoring, misuse, loss or destruction of confidential, proprietary and other information (including account data information) or data security compromises. Such attacks or breaches could also cause service interruptions, malfunctions or other failures in the physical infrastructure or operations systems that support our businesses and customers (such as the lack of availability of our value-added services), as well as the operations of our customers or other third parties. In addition, they could lead to damage to our reputation with our customers and other parties and the market, additional costs to us (such as repairing systems, adding new personnel or protection technologies or compliance costs), regulatory penalties, financial losses to both us and our customers and partners and the loss of customers and business opportunities. If such attacks are not detected immediately, their effect could be compounded.

Despite various mitigation efforts that we undertake, there can be no assurance that we will be immune to these risks and not suffer material breaches and resulting losses in the future, or that our insurance coverage would be sufficient to cover all losses. Our risk and exposure to these matters remain heightened because of, among other things, the evolving nature of these threats, our prominent size and scale and our role in the global payments and technology industries, our plans to continue to implement our digital and mobile channel strategies and develop additional remote connectivity solutions to serve our customers and account holders when and how they want to be served, our global presence, our extensive use of third-party vendors and future joint venture and merger and acquisition opportunities. As a result, information security and the continued development and enhancement of our controls, processes and practices designed to protect our systems, computers, software, data and networks

from attack, damage or unauthorized access remain a priority for us. As cyber-threats continue to evolve, we may be required to expend significant additional resources to continue to modify or enhance our protective measures or to investigate and remediate any information security vulnerabilities. Any of the risks described above could materially adversely affect our overall business and results of operations.

In addition to information security risks for our systems, we also routinely encounter account data compromise events involving merchants and third-party payment processors that process, store or transmit payment transaction data, which affect millions of Mastercard, Visa, Discover, American Express and other types of account holders. Further events of this type may subject us to reputational damage and/or lawsuits involving payment products carrying our brands. Damage to our reputation or that of our brands resulting from an account data breach of either our systems or the systems of our customers, merchants and other third parties could decrease the use and acceptance of our integrated products and services. Such events could also slow or reverse the trend toward electronic payments. In addition to reputational concerns, the cumulative impact of multiple account data compromise events could increase the impact of the fraud resulting from such events by, among other things, making it more difficult to identify consumers. Moreover, while most of the lawsuits resulting from account data breaches do not involve direct claims against us and while we have releases from many issuers and acquirers, we could still face damage claims, which, if upheld, could materially and adversely affect our results of operations. Such events could have a material adverse impact on our transaction volumes, results of operations and prospects for future growth, or increase our costs by leading to additional regulatory burdens being imposed on us.

Service disruptions that cause us to be unable to process transactions or service our customers could materially affect our overall business and results of operations.

Our transaction switching systems and other offerings have experienced in limited instances and may continue to experience interruptions as a result of technology malfunctions, fire, weather events, power outages, telecommunications disruptions, terrorism, workplace violence, accidents or other catastrophic events. Our visibility in the global payments industry may also put us at greater risk of attack by terrorists, activists, or hackers who intend to disrupt our facilities and/or systems. Additionally, we rely on third-party service providers for the timely transmission of information across our global data network. Inadequate infrastructure in lesser-developed markets could also result in service disruptions, which could impact our ability to do business in those markets. If one of our service providers fails to provide the communications capacity or services we require, as a result of natural disaster, operational disruptions, terrorism, hacking or any other reason, the failure could interrupt our services. Although we maintain a enterprise resiliency program to analyze risk, assess potential impacts, and develop effective response strategies, we cannot ensure that our business would be immune to these risks, because of the intrinsic importance of our switching systems to our business, any interruption or degradation could adversely affect the perception of the reliability of products carrying our brands and materially adversely affect our overall business and our results of operations.

Stakeholder Relationships

Losing a significant portion of business from one or more of our largest customers could lead to significant revenue decreases in the longer term, which could have a material adverse impact on our business and our results of operations.

Most of our customer relationships are not exclusive and may be terminated by our customers. Our customers can reassess their commitments to us at any time in the future and/or develop their own competitive services. Accordingly, our business agreements with these customers may not reduce the risk inherent in our business that customers may terminate their relationships with us in favor of relationships with our competitors, or for other reasons, or might not meet their contractual obligations to us.

In addition, a significant portion of our revenue is concentrated among our five largest customers. Loss of business from any of our large customers could have a material adverse impact on our overall business and results of operations.

Exclusive/near exclusive relationships certain customers have with our competitors may have a material adverse impact on our business.

Certain customers have exclusive, or nearly-exclusive, relationships with our competitors to issue payment products, and these relationships may make it difficult or costprohibitive for us to do significant amounts of business with them to increase our revenues. In addition, these customers may be more successful and may grow faster than the customers that primarily issue our payment products, which could put us at a competitive disadvantage. Furthermore, we earn substantial revenue from customers with nearly-exclusive relationships with our competitors. Such relationships could provide advantages to the customers to shift business from us to the competitors with which they are principally aligned. A significant loss of our existing revenue or transaction volumes from these customers could have a material adverse impact on our business.

Consolidation in the banking industry could materially and adversely affect our overall business and results of operations.

The banking industry has undergone substantial, accelerated consolidation in the past. Consolidations have included customers with a substantial Mastercard portfolio being acquired by institutions with a strong relationship with a competitor. If significant consolidation among customers were to continue, it could result in the substantial loss of business for us, which could have a material adverse impact on our business and prospects. In addition, one or more of our customers could seek to merge with, or acquire, one of our competitors, and any such transaction could also have a material adverse impact on our overall business. Consolidation could also produce a smaller number of large customers, which could increase their bargaining power and lead to lower prices and/or more favorable terms for our customers. These developments could materially and adversely affect our results of operations.

Our business significantly depends on the continued success and competitiveness of our issuing and acquiring customers and, in many jurisdictions, their ability to effectively manage or help manage our brands.

While we work directly with many stakeholders in the payments system, including merchants, governments, fintechs and large digital companies and other technology companies, we are, and will continue to be, significantly dependent on our relationships with our issuers and acquirers and their respective relationships with account holders and merchants to support our programs and services. Furthermore, we depend on our issuing partners and acquirers to continue to innovate to maintain competitiveness in the market. We do not issue cards or other payment devices, extend credit to account holders or determine the interest rates or other fees charged to account holders. Each issuer determines these and most other competitive payment program features. In addition, we do not establish the discount rate that merchants are charged for acceptance, which is the responsibility of our acquiring customers. As a result, our business significantly depends on the continued success and competitiveness of our issuing and acquiring customers and the strength of our relationships with them. In turn, our customers' success depends on a variety of factors over which we have little or no influence, including economic conditions in global financial markets or their disintermediation by competitors or emerging technologies, as well as regulation. If our customers become financially unstable, we may lose revenue or we may be exposed to settlement risk. See our risk factor in "Risk Factors - Settlement and Third-Party Obligations" in this Part I, Item 1A with respect to how we guarantee certain third-party obligations for further discussion.

With the exception of the United States and a select number of other jurisdictions, most in-country (as opposed to cross-border) transactions conducted using Mastercard, Maestro and Cirrus cards are authorized, cleared and settled by our customers or other processors. Because we do not provide domestic switching services in these countries and do not, as described above, have direct relationships with account holders, we depend on our close working relationships with our customers to effectively manage our brands, and the perception of our payments system, among consumers in these countries. We also rely on these customers to help manage our brands and perception among regulators and merchants in these countries, alongside our own relationships with them. From time to time, our customers may take actions that we do not believe to be in the best interests of our payments system overall, which may materially and adversely impact our business.

Merchants' continued focus on acceptance costs may lead to additional litigation and regulatory proceedings and increase our incentive program costs, which could materially and adversely affect our profitability.

Merchants are important constituents in our payments system. We rely on both our relationships with them, as well as their relationships with our issuer and acquirer customers, to continue to expand the acceptance of our integrated products and services. We also work with merchants to help them enable new sales channels, create better purchase experiences, improve efficiencies, increase revenues and fight fraud. In the retail industry, there is a set of larger merchants with increasingly global scope and influence. We believe that these merchants are having a significant impact on all participants in the global payments industry, including Mastercard. Some large merchants have supported the legal, regulatory and legislative challenges to interchange fees that Mastercard has been defending, including the U.S. merchant litigations. Some merchants are increasingly asking regulators to review and potentially regulate our own network fees, in addition to interchange. See our risk factor in "Risk Factors – Other Regulation" in this Part I, Item 1A with respect to payments industry regulation, including interchange fees. The continued focus of merchants on the costs of accepting various forms of payment, including in connection with the growth of digital payments, may lead to additional litigation and regulatory proceedings.

Certain larger merchants are also able to negotiate incentives from us and pricing concessions from our issuer and acquirer customers as a condition to accepting our products. We also make payments to certain merchants to incentivize them to create co-branded payment programs with us. As merchants consolidate and become even larger, we may have to increase the amount of incentives that we provide to certain merchants, which could materially and adversely affect our results of operations. Competitive and regulatory pressures on pricing could make it difficult to offset the costs of these incentives. Additionally, if the rate of merchant acceptance growth slows our business could suffer.

Our work with governments exposes us to unique risks that could have a material impact on our business and results of operations.

As we increase our work with national, state and local governments, both indirectly through financial institutions and with them directly as our customers, we may face various risks inherent in associating or contracting directly with governments. These risks include, but are not limited to, the following:

- Governmental entities typically fund projects through appropriated monies. Changes in governmental priorities or other political developments, including disruptions in
 governmental operations, could impact approved funding and result in changes in the scope, or lead to the termination, of the arrangements or contracts we or financial
 institutions enter into with respect to our payment products and services.
- Our work with governments subjects us to U.S. and international anti-corruption laws, including the U.S. Foreign Corrupt Practices Act and the U.K. Bribery Act. A violation
 and subsequent judgment or settlement under these laws could subject us to substantial monetary penalties and damages and have a significant reputational impact.
- Working or contracting with governments, either directly or via our financial institution customers, can subject us to heightened reputational risks, including extensive
 scrutiny and publicity, as well as a potential association with the policies of a government as a result of a business arrangement with that government. Any negative
 publicity or negative association with a government entity, regardless of its accuracy, may adversely affect our reputation.

Settlement and Third-Party Obligations

Our role as guarantor, as well as other contractual obligations, expose us to risk of loss or illiquidity.

We are a guarantor of certain third-party obligations, including those of certain of our customers. In this capacity, we are exposed to credit and liquidity risk from these customers and certain service providers. We may incur significant losses in connection with transaction settlements if a customer fails to fund its daily settlement obligations due to technical problems, liquidity shortfalls, insolvency or other reasons. Concurrent settlement failures of more than one of our larger customers or of several of our smaller customers either on a given day or over a condensed period of time may exceed our available resources and could materially and adversely affect our results of operations.

We have significant contractual indemnification obligations with certain customers. Should an event occur that triggers these obligations, such an event could materially and adversely affect our overall business and result of operations.

Global Economic and Political Environment

Global economic, political, financial and societal events or conditions could result in a material and adverse impact on our overall business and results of operations.

Adverse economic trends in key countries in which we operate may adversely affect our financial performance. Such impact may include, but is not limited to, the following:

- Customers mitigating their economic exposure by limiting the issuance of new Mastercard products and requesting greater incentive or greater cost stability from us
- · Consumers and businesses lowering spending, which could impact domestic and cross-border spend
- Government intervention (including the effect of laws, regulations and/or government investments on or in our financial institution customers), as well as uncertainty due
 to changing political regimes in executive, legislative and/or judicial branches of government, that may have potential negative effects on our business and our
 relationships with customers or otherwise alter their strategic direction away from our products
- Tightening of credit availability that could impact the ability of participating financial institutions to lend to us under the terms of our credit facility

Additionally, we switch substantially all cross-border transactions using Mastercard, Maestro and Cirrus-branded cards and generate a significant amount of revenue from cross-border volume fees and fees related to switched transactions. Revenue from switching cross-border and currency conversion transactions for our customers fluctuates with the levels and destinations of cross-border travel and our customers' need for transactions to be converted into their base currency. Cross-border activity has, and may continue to be, adversely affected by world geopolitical, economic, health, weather and other conditions. These include COVID-19, as well as the threat of terrorism and separate outbreaks of flu, viruses and other diseases, as well as major environmental events (including those related to climate change). The uncertainty that could result from such events could decrease cross-border activity. Additionally, any regulation of interregional interchange fees could also negatively impact our cross-border activity. In each case, decreased cross-border activity could decrease the revenue we receive.

Our operations as a global payments network rely in part on global interoperable standards to help facilitate safe and simple payments. To the extent geopolitical events result in jurisdictions no longer participating in the creation or adoption of these standards, or the creation of competing standards, the products and services we offer could be negatively impacted.

Any of these developments could have a material adverse impact on our overall business and results of operations.

Adverse currency fluctuations and foreign exchange controls could negatively impact our results of operations.

During 2020, approximately 67% of our revenue was generated from activities outside the United States. This revenue (and the related expense) could be transacted in a nonfunctional currency or valued based on a currency other than the functional currency of the entity generating the revenues. Resulting exchange gains and losses are included in our net income. Our risk management activities provide protection with respect to adverse changes in the value of only a limited number of currencies and are based on estimates of exposures to these currencies.

In addition, some of the revenue we generate outside the United States is subject to unpredictable currency fluctuations including devaluation of currencies where the values of other currencies change relative to the U.S. dollar. If the U.S. dollar strengthens compared to currencies in which we generate revenue, this revenue may be translated at a materially lower amount than expected. Furthermore, we may become subject to exchange control regulations that might restrict or prohibit the conversion of our other revenue currencies into U.S. dollars, such as what we have experienced in Venezuela.

The occurrence of currency fluctuations or exchange controls could have a material adverse impact on our results of operations.

Brand and Reputational Impact

Negative brand perception may materially and adversely affect our overall business.

Our brands and their attributes are key assets of our business. The ability to attract consumers to our branded products and retain them depends upon the external perception of us and our industry. Our business may be affected by actions taken by our customers, merchants or other organizations that impact the perception of our brands or the payments industry in general. From time to time, our customers may take actions that we do not believe to be in the best interests of our brands, such as creditor practices that may be viewed as "predatory". Moreover, adverse developments with respect to our industry or the industries of our customers or other companies and organizations that use our products and services (including certain legally permissible but high risk merchant categories, such as alcohol, tobacco, fire-arms and adult content) may also, by association, impair our reputation, or result in greater public, regulatory or legislative scrutiny. We have also been pursuing the use of social media channels at an increasingly rapid pace. Under some circumstances, our use of social media, or the use of social media by others as a channel for criticism or other purposes, could also cause rapid, widespread reputational harm to our brands by disseminating rapidly and globally actual or perceived damaging information about us, our products or merchants or other end users who utilize our products. To the extent any of our published sustainability metrics are subsequently viewed as inaccurate or we are unable to execute on our sustainability initiatives, we may be viewed negatively by consumers, investors and other stakeholders concerned about these matters. Also, as we are headquartered in the United States, a negative perception of the United States could impact the perception of our company, which could adversely affect our business. Any of the above issues could have a material and adverse effect to our overall business.

Lack of visibility of our brand in our products and services, or in the products and services of our partners who use our technology, may materially and adversely affect our business.

As more players enter the global payments system, the layers between our brand and consumers and merchants increase. In order to compete with other powerful consumer brands that are also becoming part of the consumer payment experience, we often partner with those brands on payment solutions. These brands include large digital companies and other technology companies who are our customers and use our networks to build their own acceptance brands. In some cases, our brand may not be featured in the payment solution or may be secondary to other brands. Additionally, as part of our relationships with some issuers, our payment brand is only included on the back of the card. As a result, our brand may either be invisible to consumers or may not be the primary brand with which consumers associate the payment experience. This brand invisibility, or any consumer confusion as to our role in the consumer payment experience, could decrease the value of our brand, which could adversely affect our business.

Talent and Culture

We may not be able to attract, hire and retain a highly qualified and diverse workforce, or maintain our corporate culture, which could impact our ability to grow effectively.

Our performance largely depends on the talents and efforts of our employees, particularly our key personnel and senior management. We may be unable to retain or to attract highly qualified employees. The market for key personnel is highly competitive, particularly in technology and other skill areas significant to our business. Additionally, changes in immigration and work permit laws and visa regulations and related enforcement have made it difficult for employees to work in, or transfer among, jurisdictions in which we have operations and could impair our ability to attract and retain qualified employees. Moreover, as a result of the global COVID-19 pandemic, a significant portion of our workforce is working in a mostly remote environment. This remote environment may continue after the pandemic due to potential resulting trends, and could impact the quality of our corporate culture. Failure to attract, hire, develop, motivate and retain highly qualified and diverse employee talent, or to maintain a corporate culture that fosters innovation, creativity and teamwork could harm our overall business and results of operations.

We rely on key personnel to lead with integrity and decency. To the extent our leaders behave in a manner that is not consistent with our values, we could experience significant impact to our brand and reputation, as well as to our corporate culture.

Acquisitions

Acquisitions, strategic investments or entry into new businesses could be impacted by regulatory scrutiny, and if successful, could disrupt our business and harm our results of operations or reputation.

As we continue to evaluate our strategic acquisitions of, or acquiring interests in joint ventures or other entities related to, complementary businesses, products or technologies, we face increasing regulatory scrutiny with respect to antitrust and other considerations. Such scrutiny could prevent us from successfully completing such acquisitions in the future.

To the extent we do make these acquisitions, we may not be able to successfully partner with or integrate them, despite original intentions and focused efforts. In addition, such an integration may divert management's time and resources from our core business and disrupt our operations. Moreover, we may spend time and money on acquisitions or projects that do not meet our expectations or increase our revenue. To the extent we pay the purchase price of any acquisition in cash, it would reduce our cash reserves available to us for other uses, and to the extent the purchase price is paid with our stock, it could be dilutive to our stockholders. Furthermore, we may not be able to successfully finance the business following the acquisition as a result of costs of operations, including any litigation risk which may be inherited from the acquisition.

Any acquisition or entry into a new business could subject us to new regulations, both directly as a result of the new business as well as in the other existing parts of our business, with which we would need to comply. This compliance could increase our costs, and we could be subject to liability or reputational harm to the extent we cannot meet any such compliance requirements. Our expansion into new businesses could also result in unanticipated issues which may be difficult to manage.

Class A Common Stock and Governance Structure

Provisions in our organizational documents and Delaware law could be considered anti-takeover provisions and have an impact on change-in-control.

Provisions contained in our amended and restated certificate of incorporation and bylaws and Delaware law could be considered anti-takeover provisions, including provisions that could delay or prevent entirely a merger or acquisition that our stockholders consider favorable. These provisions may also discourage acquisition proposals or have the effect of delaying or preventing entirely a change in control, which could harm our stock price. For example, subject to limited exceptions, our amended and restated certificate of incorporation prohibits any person from beneficially owning more than 15% of any of the Class A common stock or any other class or series of our stock with general voting power, or more than 15% of our total voting power. In addition:

- our stockholders are not entitled to the right to cumulate votes in the election of directors
- our stockholders are not entitled to act by written consent
- a vote of 80% or more of all of the outstanding shares of our stock then entitled to vote is required for stockholders to amend any provision of our bylaws
- any representative of a competitor of Mastercard or of Mastercard Foundation is disqualified from service on our board of directors

Mastercard Foundation's substantial stock ownership, and restrictions on its sales, may impact corporate actions or acquisition proposals favorable to, or favored by, the other public stockholders.

As of February 9, 2021, Mastercard Foundation owned 108,210,635 shares of Class A common stock, representing approximately 11.0% of our general voting power. Mastercard Foundation may not sell or otherwise transfer its shares of Class A common stock prior to May 1, 2027, except to the extent necessary to satisfy its charitable disbursement requirements, for which purpose earlier sales are permitted and have occurred. Mastercard Foundation is permitted to sell all of its remaining shares after May 1, 2027, subject to certain conditions. The directors of Mastercard Foundation are required to be independent of us and our customers. The ownership of Class A common stock by Mastercard Foundation, together with the restrictions on transfer, could discourage or make more difficult acquisition proposals favored by the other holders of the Class A common stock. In addition, because Mastercard Foundation is restricted from selling its shares for an extended period of time, it may not have the same interest in short or medium-term movements in our stock price as, or incentive to approve a corporate action that may be favorable to, our other stockholders.

Item 1B. Unresolved staff comments

Not applicable.

Item 2. Properties

We own our corporate headquarters, located in Purchase, New York, and our principal technology and operations center, located in O'Fallon, Missouri. As of December 31, 2020, Mastercard and its subsidiaries owned or leased commercial properties throughout the U.S. and other countries around the world, consisting of corporate and regional offices, as well as our operations centers.

We believe that our facilities are suitable and adequate for the business that we currently conduct. However, we periodically review our space requirements and may acquire or lease new space to meet the needs of our business, or consolidate and dispose of facilities that are no longer required.

Item 3. Legal proceedings

Refer to Note 13 (Accrued Expenses and Accrued Litigation) and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8.

Item 4. Mine Safety Disclosures

Not applicable.

Information about our executive officers

(as of February 12, 2021)

Name Current Position	Age	Previous Mastercard Experience	Previous Business Experience
Ajay Banga Executive Chairman since January 2021	61	Chief Executive Officer (2020) President and Chief Executive Officer (2010-2020) President and COO (2009-2010)	Several executive positions at Citigroup, including CEO, Asia Pacific region and Chairman and CEO, International Global Consumer Group Previous senior leadership experience at Nestlé India and PepsiCo in roles of increasing responsibility
Ajay Bhalla President, Cyber and Intelligence Solutions since November 2018	55	President, Enterprise Security Solutions (2014-2018) President, Digital Gateway Services (2011-2013) President, South Asia and Southeast Asia (2008-2011) Various senior leadership positions, including President, Southeast Asia; Country Manager, Singapore and Head of Marketing, Southeast Asia; Vice President	Various leadership positions at HSBC and Xerox Corporation
Ann Cairns Vice Chairman since June 2018	64	President, International (2011-2018)	Managing director, Alvarez & Marsal CEO, ABN AMRO Senior corporate and investment banking roles at Citigroup
Gilberto Caldart President, International since June 2018	61	President, Latin America and Caribbean region (2013- 2018) Division President, South Latin America/Brazil (2008- 2013)	Various leadership positions at Citigroup, including Country Business Manager, Brazil
Michael Fraccaro Chief People Officer since July 2016	55	Executive Vice President, Human Resources, Global Products and Solutions (2014-2016) Senior Vice President, Human Resources, Global Products and Solutions (2012-2014)	Various executive-level human resources positions at HSBC Group, Hong Kong (2000-2012) Various senior human resources positions in banking and financial services in Australia and the Middle East
Michael Froman Vice Chairman and President, Strategic Growth since April 2018	58	Mr. Froman joined the Company in 2018 in his current role	U.S. Trade Representative in the Executive Office of President Obama (2013-2017) Assistant to the President and Deputy National Security Advisor for International Economic Policy (2009-2013) Various senior leadership positions at Citigroup, including CEO, Citilnsurance and COO of Citigroup's alternative investments business

Name Current Position	Age	Previous Mastercard Experience	Previous Business Experience
Linda Kirkpatrick	44	President, U.S. Issuers (2020)	
President, North America since January 2021		Executive Vice President, Merchants and Acceptance (2016-2020)	
		Senior Vice President, Core Merchants (2013-2016)	
		Senior Vice President, Franchise Development (2011-2013)	
		Vice President, U.S. Region (2008-2011)	
		Vice President, Investor Relations	
Edward McLaughlin	55	Chief Information Officer (2016-2017)	Group Vice President, Product and Strategy, Metavante
President, Operations and Technology		Chief Emerging Payments Officer (2010-2015)	Corporation
since May 2017		Various senior leadership roles, including Chief Franchise Development Officer and Senior Vice President, Bill Payment and Healthcare	Co-Founder and CEO, Paytrust, Inc.
Sachin Mehra	50	Chief Financial Operations Officer (2018-2019)	Various senior positions at Hess Corporation, including Vice
Chief Financial Officer		Executive Vice President, Commercial Products (2015-	President and Treasurer
since April 2019		2018)	Various senior treasury and finance positions, General Motors
		Executive Vice President and Business Financial Officer, North America (2013-2015)	Corporation and GMAC
		Corporate Treasurer (2010-2013)	
Michael Miebach	53	President (2020)	Managing Director, Middle East and North Africa and Managing
President and Chief Executive Officer		Chief Product Officer (2016-2020)	Director, Sub-Saharan Africa, Barclays Bank PLC
since January 2021		President, Middle East and Africa (2010-2015)	Various executive positions at Citigroup in Germany, Austria, U.K. and Turkey
Tim Murphy	53	Chief Product Officer (2009-2014)	Associate, Cleary, Gottlieb, Steen and Hamilton, New York and
General Counsel since April 2014		Various senior leadership roles, including President, U.S. Region; Executive Vice President, Customer Business Planning and Analysis; and Senior Vice President and Associate General Counsel	London
Raja Rajamannar	59	Chief Marketing Officer (2013-2015)	Executive Vice President-Senior Business and Chief
Chief Marketing and Communications Officer and President, Healthcare			Transformation Officer, Anthem (formerly, WellPoint, Inc.) (2012- 2013)
since January 2016			Senior Vice President and Chief Innovation and Marketing Officer, Humana Inc. (2009-2012)
			Various management positions at Citigroup, including Executive Vice President and Chief Marketing Officer-Citi Global Cards

Name Current Position	Age	Previous Mastercard Experience	Previous Business Experience
Raj Seshadri President, Data and Services	55	President, U.S. Issuers (2016-2019)	Managing Director, Head of iShares U.S. Wealth Advisory business, BlackRock (2014-2016)
since January 2020			Managing Director, Global Marketing Officer of iShares, BlackRock, Inc. (2012-2014)
			Various leadership positions at Citigroup, U.S. Trust Company and McKinsey & Company, Inc.
Kevin Stanton Chief Transformation Officer since January 2020	59	Chief Services Officer (2018-2019) President, Mastercard Advisors (2010-2017) Various senior leadership roles, including President, Canada; Senior Vice President, Strategy and Market Development; and Vice President, Senior Counsel and North America Region Counsel	Vice President, Counsel, Shawmut National Corporation
Craig Vosburg Chief Product Officer since January 2021	53	President, North America (2016-2020) Chief Product Officer (2014-2015) Executive Vice President, U.S. Market Development (2010- 2014) Various senior leadership roles, including Head of Mastercard Advisors, U.S. and Canada and Head of Mastercard Advisors, Southeast Asia, Greater China and South Asia/Middle East/Africa	Senior member-financial services practice, Bain & Company and A.T. Kearney Vice president, CoreStates Financial Corporation

PART II

Item 5. Market for registrant's common equity, related stockholder matters and issuer purchases of equity securities Item 6. Selected financial data Item 7. Management's discussion and analysis of financial condition and results of operations Item 7A. Quantitative and qualitative disclosures about market risk Item 8. Financial statements and supplementary data Item 9. Changes in and disagreements with accountants on accounting and financial disclosure Item 9A. Controls and procedures Item 9B. Other information

Item 5. Market for registrant's common equity, related stockholder matters and issuer purchases of equity securities

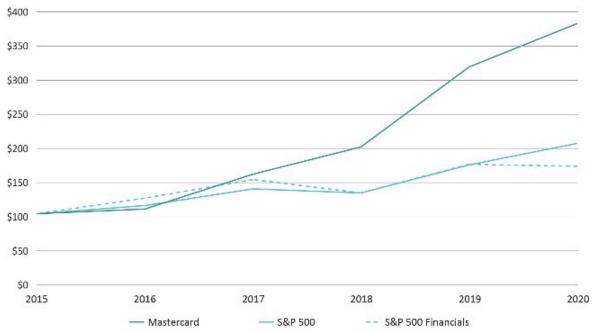
Our Class A common stock trades on the New York Stock Exchange under the symbol "MA". At February 9, 2021, we had 73 stockholders of record for our Class A common stock. We believe that the number of beneficial owners is substantially greater than the number of record holders because a large portion of our Class A common stock is held in "street name" by brokers.

There is currently no established public trading market for our Class B common stock. There were approximately 257 holders of record of our non-voting Class B common stock as of February 9, 2021, constituting approximately 0.8% of our total outstanding equity.

Stock Performance Graph

The graph and table below compare the cumulative total stockholder return of Mastercard's Class A common stock, the S&P 500 and the S&P 500 Financials for the five-year period ended December 31, 2020. The graph assumes a \$100 investment in our Class A common stock and both of the indices and the reinvestment of dividends. Mastercard's Class B common stock is not publicly traded or listed on any exchange or dealer quotation system.

Comparison of cumulative five-year total return



Total returns to stockholders for each of the years presented were as follows:

					Ind	exed Returns			
	Bas	e period		For the	Year	s Ended Dece	mber	r 31,	
Company/Index		2015	2016	2017		2018		2019	2020
Mastercard	\$	100.00	\$ 106.91	\$ 157.88	\$	197.86	\$	314.91	\$ 378.44
S&P 500		100.00	111.96	136.40		130.42		171.49	203.04
S&P 500 Financials		100.00	122.80	150.04		130.49		172.41	169.49

Dividend Declaration and Policy

On December 8, 2020, our Board of Directors declared a quarterly cash dividend of \$0.44 per share paid on February 9, 2021 to holders of record on January 8, 2021 of our Class A common stock and Class B common stock. On February 8, 2021, our Board of Directors declared a quarterly cash dividend of \$0.44 per share payable on May 7, 2021 to holders of record on April 9, 2021 of our Class A common stock and Class B common stock and Class B common stock and Class B common stock.

Subject to legally available funds, we intend to continue to pay a quarterly cash dividend on our outstanding Class A common stock and Class B common stock. However, the declaration and payment of future dividends is at the sole discretion of our Board of Directors after taking into account various factors, including our financial condition, operating results, available cash and current and anticipated cash needs.

Issuer Purchases of Equity Securities

During the fourth quarter of 2020, we repurchased a total of approximately 3.1 million shares for \$1.03 billion at an average price of \$330.34 per share of Class A common stock. See Note 16 (Stockholders' Equity) to the consolidated financial statements included in Part II, Item 8 for further discussion with respect to our share repurchase programs. The following table presents our repurchase activity on a cash basis during the fourth quarter of 2020:

Period	Total Number of Shares Purchased	Р	Average Price aid per Share (including mmission cost)	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Dollar Value of Shares that may yet be Purchased under the Plans or Programs ¹
October 1 – 31	1,552,273	\$	335.39	1,552,273	\$ 4,340,730,451
November 1 – 30	779,892		314.13	779,892	4,095,745,017
December 1 – 31	785,846		336.44	785,846	9,831,351,292
Total	3,118,011		330.34	3,118,011	

¹ Dollar value of shares that may yet be purchased under the share repurchase programs are as of the end of each period presented.

Item 6. Selected financial data

The statement of operations data and the cash dividends declared per share for the years ended December 31, 2020, 2019 and 2018, and the balance sheet data as of December 31, 2020 and 2019, are presented in the audited consolidated financial statements of Mastercard Incorporated included in Part II, Item 8. The statement of operations data and the cash dividends declared per share for the years ended December 31, 2017 and 2016, and the balance sheet data as of December 31, 2018, 2017 and 2016, are not included in this Report, and are provided in Part II, Item 8 of our Annual Reports on Form 10-K for the years ended December 31, 2018, 2017 and 2016.

Item 7. Management's discussion and analysis of financial condition and results of operations

The following discussion should be read in conjunction with the consolidated financial statements and notes of Mastercard Incorporated and its consolidated subsidiaries, including Mastercard International Incorporated ("Mastercard International") (together, "Mastercard" or the "Company"), included elsewhere in this Report. Percentage changes provided throughout "Management's Discussion and Analysis of Financial Condition and Results of Operations" were calculated on amounts rounded to the nearest thousand. For discussion related to the results of operations for the year ended December 31, 2019 compared to the year ended December 31, 2018, please see Part II, Item 7 of our Annual Report on Form 10-K for the year ended December 31, 2019.

Business Overview

Mastercard is a technology company in the global payments industry that connects consumers, financial institutions, merchants, governments, digital partners, businesses and other organizations worldwide, enabling them to use electronic forms of payment instead of cash and checks. We make payments easier and more efficient by providing a wide range of payment solutions and services using our family of well-known brands, including Mastercard®, Maestro® and Cirrus®. We operate a multi-rail network that offers customers one partner to turn to for their domestic and cross-border payment needs. Through our unique and proprietary global payments network, which we refer to as our core network, we switch (authorize, clear and settle) payment transactions and deliver related products and services. We have additional payment capabilities that include automated clearing house ("ACH") transactions (both batch and real-time account-based payments). We also provide integrated value-added offerings such as cyber and intelligence products, information and analytics services, consulting, loyalty and reward programs, processing and open banking. Our payment solutions offer customers choice and flexibility and are designed to ensure safety and security for the global payments system.

A typical transaction on our core network involves four participants in addition to us: account holder (a person or entity who holds a card or uses another device enabled for payment), issuer (the account holder's financial institution), merchant and acquirer (the merchant's financial institution). We do not issue cards, extend credit, determine or receive revenue from interest rates or other fees charged to account holders by issuers, or establish the rates charged by acquirers in connection with merchants' acceptance of our products. In most cases, account holder relationships belong to, and are managed by, our customers.

COVID-19

The coronavirus ("COVID-19") pandemic has spread rapidly across the globe and has had significant negative effects on the global economy. This outbreak has affected business activity, adversely impacting consumers, our customers, suppliers and business partners, as well as our workforce. We continue to monitor the effects of the pandemic and actions taken by governments as they relate to travel restrictions, social distancing measures and restrictions on business operations, as well as the continued impact of these actions on consumers and businesses. While some of these measures have eased in certain jurisdictions, others have remained in place. The extent to which current measures are removed or new measures are put in place will depend upon how the pandemic evolves, as well as the progress of the global roll-out of vaccines.

The COVID-19 outbreak affected our 2020 performance, during which we noted unfavorable trends compared to historical periods. The following table provides a summary of trends in our key metrics for 2020 as compared to the respective periods in 2019:

		Quarte	er ended				Year ended
	March 31	June 30	September 30		December 31		December 31
			Increase/(Decrea	ase)			
Gross dollar volume (local currency basis)	8 %	(10)%	1	%	1	%	— %
Cross-border volume (local currency basis)	(1) %	(45)%	(36)	%	(29)	%	(29) %
Switched transactions	13 %	(10)%	5	%	4	%	3 %

The impact of this outbreak started in the first quarter of 2020 as we experienced declines in our key metrics compared to historical periods, primarily due to travel restrictions and stay-at-home orders implemented by governments in many regions and countries across the globe. Our key metrics continued to be impacted throughout 2020 as follows:

• Gross dollar volumes were flat in 2020 as compared to 2019, recovering gradually in the second half of the year from a decline during the second quarter in part due to the global relaxation of both restrictions on business operations and social distancing measures.

- Cross-border volumes were negatively impacted by the pandemic during 2020 due to a significant decrease in global travel as a result of compliance with travel restrictions
 and quarantine requirements. While cross-border volumes are still lower compared to prior year periods, these volumes have improved throughout the second half of
 2020.
- Switched transactions were negatively impacted by the pandemic primarily in the second quarter. Subsequently, switched transactions improved during the third quarter in part due to the global relaxation of both restrictions on business operations and social distancing measures. During the fourth quarter, switched transactions growth slowed slightly as compared to the third quarter.

The full extent to which the pandemic, and measures taken in response, affect our business, results of operations and financial condition will depend on future developments, including the duration of the pandemic and its impact on the global economy, which are uncertain, and cannot be predicted at this time.

Financial Results Overview

The following table provides a summary of our key GAAP operating results, as reported:

		١	ear end	led December	31,		2020 Increase/	2019 Increase/				
		2020	2019			2018	(Decrease)	(Decrease)				
	(\$ in millions, except per share data)											
Net revenue	\$	\$ 15,301		16,883	\$	14,950	(9)%	13%				
Operating expenses	\$	7,220	\$	7,219	\$	7,668	-%	(6)%				
Operating income	\$	8,081	\$	9,664	\$	7,282	(16)%	33%				
Operating margin		52.8 %		57.2 %	ć	48.7 %	(4.4) ppt	8.5 ppt				
Income tax expense	\$	1,349	\$	1,613	\$	1,345	(16)%	20%				
Effective income tax rate		17.4 %		16.6 %	ć	18.7 %	0.8 ppt	(2.1) ppt				
Net income	\$	6,411	\$	8,118	\$	5,859	(21)%	39%				
Diluted earnings per share	\$	6.37	\$	7.94	\$	5.60	(20)%	42%				
Diluted weighted-average shares outstanding		1,006		1,022		1,047	(2)%	(2)%				

The following table provides a summary of our key non-GAAP operating results¹, adjusted to exclude the impact of gains and losses on our equity investments, special items (which represent litigation judgments and settlements and certain one-time items) and the related tax impacts on our non-GAAP adjustments. In addition, we have presented growth rates, adjusted for the impact of currency:

	١	ear en	ded Decembe	r 31,			020 /(Decrease)		2019 e/(Decrease)
	2020		2019		2018	As adjusted	Currency-neutral	As adjusted	Currency-neutral
					(\$ in million	s, except per sha	re data)		
Net revenue	\$ 15,301	\$	16,883	\$	14,950	(9)%	(8)%	13%	16%
Adjusted operating expenses	\$ 7,147	\$	7,219	\$	6,540	(1)%	(1)%	10%	12%
Adjusted operating margin	53.3 %	6	57.2 %	Ś	56.2 %	(4.0) ppt	(3.7) ppt	1.0 ppt	1.3 ppt
Adjusted effective income tax rate	17.2 %	6	17.0 %	Ś	18.5 %	0.2 ppt	0.3 ppt	(1.5) ppt	(1.3) ppt
Adjusted net income	\$ 6,463	\$	7,937	\$	6,792	(19)%	(17)%	17%	20%
Adjusted diluted earnings per share	\$ 6.43	\$	7.77	\$	6.49	(17)%	(16)%	20%	23%

Note: Tables may not sum due to rounding.

See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

Key highlights for 2020 as compared to 2019 were as follows:

Net	revenue	
GAAP	Non-GAAP (currency-neutral)	Net revenue decreased 8% on a currency-neutral basis due to COVID-19 impacts, and includes a 1 percentage point benefit from acquisitions. Gross dollar volume was flat on a local currency basis. The primary drivers of
down 9%	down 8%	net revenue were: - Cross-border volume decline of 29% on a local currency basis
		- Rebates and incentives growth of 3%, or 4% on a currency-neutral basis
		These decreases to net revenue were partially offset by:
		- Switched transactions growth of 3%
		- Other revenues growth of 14%, or 15% on a currency-neutral basis, which
		includes 3 percentage points of growth due to acquisitions
Operating expenses	Adjusted operating expenses	
GAAP	Non-GAAP (currency-neutral)	Adjusted operating expense decreased 1% on a currency-neutral basis, which included a 4 percentage point increase due to acquisitions. Excluding acquisitions, expenses declined 5 percentage points primarily due to reduced spending on advertising and marketing, travel and professional fees, partially offset by higher
flat	down 1%	personnel and data processing costs to support continued investment in our strategic initiatives.
	Adjusted effective income	e tax
Effective income tax rate	rate	
GAAP	Non-GAAP (currency-neutral)	Adjusted effective income tax rate of 17.2% was higher than prior year primarily due to a discrete tax benefit related to a favorable court ruling in 2019.
17.4%	17.2%	

Other 2020 financial highlights were as follows:

- We generated net cash flows from operations of \$7.2 billion.
- We completed the acquisitions of businesses for total consideration of \$1.1 billion.
- We repurchased 14.3 million shares of our common stock for \$4.5 billion and paid dividends of \$1.6 billion.
- We completed debt offerings for an aggregate principal amount of \$4.0 billion.

Non-GAAP Financial Information

Non-GAAP financial information is defined as a numerical measure of a company's performance that excludes or includes amounts so as to be different than the most comparable measure calculated and presented in accordance with accounting principles generally accepted in the United States ("GAAP"). Our non-GAAP financial measures exclude the impact of special items, where applicable, which represent litigation judgments and settlements and certain one-time items, as well as the related tax impacts ("Special Items"). Starting in 2019, our non-GAAP financial measures also exclude the impact of gains and losses on our equity investments which primarily includes mark-to-market fair value adjustments, impairments and gains and losses upon disposition and the related tax impacts. The 2018 amounts were not restated, as the impact of the change was immaterial in relation to our non-GAAP financial. Our non-GAAP financial measures for the comparable periods exclude the impact of the following:

Gains and Losses on Equity Investments

During 2020 and 2019, we recorded net gains of \$30 million (\$15 million after tax, or \$0.01 per diluted share) and \$167 million (\$124 million after tax, or \$0.12 per diluted share), respectively. The net gains were primarily related to unrealized fair market value adjustments on marketable and non-marketable equity securities.

Special Items

Litigation provisions

- During 2020, we recorded pre-tax charges of \$73 million (\$67 million after tax, or \$0.07 per diluted share) related to litigation provisions which included pre-tax charges of:
 - \$45 million related to an ongoing confidential legal matter associated with our prepaid cards in the U.K., and
 - \$28 million related to estimated attorneys' fees and litigation settlements with U.K. and Pan-European merchants.
- During 2018, we recorded pre-tax charges of \$1,128 million (\$1,008 million after tax, or \$0.96 per diluted share) related to litigation provisions which included pre-tax charges of:
 - \$654 million related to a fine issued by the European Commission,
 - \$237 million related to both the U.S. merchant class litigation and the filed and anticipated opt-out U.S. merchant cases, and
- \$237 million related to litigation settlements with U.K. and Pan-European merchants.

Tax act

- During 2019, we recorded a \$57 million net tax benefit (\$0.06 per diluted share), which included a \$30 million benefit related to a reduction to the 2017 one-time deemed
 repatriation tax on accumulated foreign earnings (the "Transition Tax") resulting from final tax regulations issued in 2019 and a \$27 million benefit related to additional
 foreign tax credits which can be carried back under transition rules.
- During 2018, we recorded a \$75 million net tax benefit (\$0.07 per diluted share), which included a \$90 million benefit related to the carryback of foreign tax credits due to
 transition rules, offset by a net \$15 million expense primarily related to an increase to our Transition Tax.

See Note 7 (Investments), Note 20 (Income Taxes) and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8 for further discussion. We excluded these items because management evaluates the underlying operations and performance of the Company separately from these recurring and nonrecurring items.

We believe that the non-GAAP financial measures presented facilitate an understanding of our operating performance and provide a meaningful comparison of our results between periods. We use non-GAAP financial measures to, among other things, evaluate our ongoing operations in relation to historical results, for internal planning and forecasting purposes and in the calculation of performance-based compensation.

In addition, we present growth rates adjusted for the impact of currency, which is a non-GAAP financial measure. Currency-neutral growth rates are calculated by remeasuring the prior period's results using the current period's exchange rates for both the translational and transactional impacts on operating results. The impact of currency translation represents the effect of translating operating results where the functional currency is different than our U.S. dollar reporting currency. The impact of the transactional currency represents the effect of converting revenue and expenses occurring in a currency other than the functional currency. We believe the presentation of currency-neutral growth rates provides relevant information to facilitate an understanding of our operating results.

Net revenue, operating expenses, operating margin, other income (expense), effective income tax rate, net income and diluted earnings per share adjusted for the impact of gains and losses on our equity investments, Special Items and/or the impact of currency, are non-GAAP financial measures and should not be relied upon as substitutes for measures calculated in accordance with GAAP.

The following tables reconcile our reported financial measures calculated in accordance with GAAP to the respective non-GAAP adjusted financial measures:

			Year ended Decen	nber 31, 2020		
	perating expenses	Operating margin	Other income (expense)	Effective income tax rate	Net income	Diluted earnings per share
	 		in millions, except	per share data)		
Reported - GAAP	\$ 7,220	52.8 %	\$ (321)	17.4 %	\$ 6,411	\$ 6.37
(Gains) losses on equity investments	**	**	(30)	(0.1) %	(15)	(0.01)
Litigation provisions	(73)	0.5 %	**	(0.1) %	67	0.07
Non-GAAP	\$ 7,147	53.3 %	\$ (351)	17.2 %	\$ 6,463	\$ 6.43

			Year	ended Decem	ıber 31, 2019				
	perating xpenses	Operating margin	ir	Other ncome xpense)	Effective income tax rate	i	Net income	e	Diluted arnings er share
		(\$	\$ in mil	llions, except	per share data)				
Reported - GAAP	\$ 7,219	57.2 %	\$	67	16.6 %	\$	8,118	\$	7.94
(Gains) losses on equity investments	**	**		(167)	(0.2) %		(124)		(0.12)
Tax act	**	**		**	0.6 %		(57)		(0.06)
Non-GAAP	\$ 7,219	57.2 %	\$	(100)	17.0 %	\$	7,937	\$	7.77

				Year	r ended Deceml	ber 31, 2018		
	•	erating penses	Operating margin		Other income expense)	Effective income tax rate	Net income	Diluted earnings per share
				\$ in m	illions, except p	per share data)		
Reported - GAAP	\$	7,668	48.7 %	\$	(78)	18.7 %	\$ 5,859	5.60
Ligitation provisions		(1,128)	7.5 %		**	(1.1) %	1,008	0.96
Tax act		**	**		**	0.9 %	(75)	(0.07)
Non-GAAP	\$	6,540	56.2 %	\$	(78)	18.5 %	\$ 6,792	\$ 6.49

Note: Tables may not sum due to rounding.

** Not applicable

The following tables represent the reconciliation of our growth rates reported under GAAP to our non-GAAP growth rates:

		Year Ended	Decemb	er 31, 2020 as compar	ed to the Year Ended I	December 31, 2019)					
	Increase/(Decrease)											
	Net revenue	Opera exper		Operating margin	Effective income tax rate	Net income	Diluted earnings per share					
Reported - GAAP	(9) %	6	- %	6 (4.4) ppt	. 0.8 ppt	(21) %	(20) %					
(Gains) losses on equity investments	*	*	*:	* **	– ppt	1 %	1 %					
Litigation provisions	*	*	(1) %	6 0.5 ppt	: (0.1) ppt	1 %	1 %					
Tax act	*	*	*:	* **	(0.6) ppt	1 %	1 %					
Non-GAAP	(9) %	6	(1) %	6 (4.0) ppt	. 0.2 ppt	(19) %	(17) %					
Currency impact ²	1 9	6	- %	6 0.3 ppt	. 0.2 ppt	1 %	1 %					
Non-GAAP - currency-neutral	(8) 9	6	(1) %	6 (3.7) ppt	0.3 ppt	(17) %	(16) %					

		Ye	ear Ended Decer	nber	31, 2019 as compare	d to the Year Ended D	ecember 31, 2018	3
					Increase/(De	ecrease)		
	Net revenue		Operating expenses		Operating margin	Effective income tax rate	Net income	Diluted earnings per share
Reported - GAAP	13	%	(6)	%	8.5 ppt	(2.1) ppt	39 %	42 %
(Gains) losses on equity investments ¹	:	**		**	**	(0.2) ppt	(2) %	(2) %
Tax act	:	**		**	**	(0.3) ppt	1 %	1 %
Litigation provisions		**	16	%	(7.5) ppt	1.1 ppt	(20) %	(21) %
Non-GAAP	13	%	10	%	1.0 ppt	(1.5) ppt	17 %	20 %
Currency impact ²	3	%	2	%	0.3 ppt	0.2 ppt	3 %	3 %
Non-GAAP - currency-neutral	16	%	12	%	1.3 ppt	(1.3) ppt	20 %	23 %

Note: Tables may not sum due to rounding.

** Not applicable

¹ In 2019 we updated our non-GAAP methodology to prospectively exclude the impact of gains and losses on our equity investments. The 2018 period was not restated as the impact of the change was immaterial in relation to our non-GAAP results.

² Represents the translational and transactional impact of currency.

Key Metrics

In addition to the financial measures described above in "Financial Results Overview", we review the following metrics to evaluate and identify trends in our business, measure our performance, prepare financial projections and make strategic decisions. We believe that the key metrics presented facilitate an understanding of our operating and financial performance and provide a meaningful comparison of our results between periods.

Gross Dollar Volume ("GDV")¹ measures dollar volume of activity on cards carrying our brands during the period, on a local currency basis and U.S. dollar-converted basis. Dollar volume represents purchase volume plus cash volume and includes the impact of balance transfers and convenience checks; "purchase volume" means the aggregate dollar amount of purchases made with Mastercard-branded cards for the relevant period; and "cash volume" means the aggregate dollar amount of cash disbursements and includes the impact of balance transfers and convenience checks; "purchase volume" means the aggregate dollar amount of cash disbursements and includes the impact of balance transfers and convenience checks obtained with Mastercard-branded cards for the relevant period. Information denominated in U.S. dollars relating to GDV is calculated by applying an established U.S. dollar/local currency exchange rate for each local currency in which Mastercard volumes are reported. These exchange rates are calculated on a quarterly basis using the average exchange rate for each quarter. Mastercard reports period-over-period rates of change in purchase volume and cash volume on the basis of local currency information, in order to eliminate the impact of changes in the value of currencies against the U.S. dollar in calculating such rates of change.

Cross-border Volume² measures cross-border dollar volume initiated and switched through our network during the period, on a local currency basis and U.S. dollar-converted basis, for all Mastercard-branded programs.

Switched Transactions² measures the number of transactions switched by Mastercard. We define transactions switched as the number of transactions initiated and switched through our network during the period.

Operating Margin measures how much profit we make on each dollar of sales after our operating costs but before other income (expense) and income tax expense. Operating margin is calculated by dividing our operating income by net revenue.

- ¹ Data used in the calculation of GDV is provided by Mastercard customers and is subject to verification by Mastercard and partial cross-checking against information provided by Mastercard's transaction switching systems. All data is subject to revision and amendment by Mastercard or Mastercard's customers.
- ² Normalized to eliminate the effects of differing switching and carryover days between periods. Carryover days are those where transactions and volumes from days where the company does not clear and settle are processed.

Foreign Currency

Currency Impact

Our primary revenue functional currencies are the U.S. dollar, euro, Brazilian real and the British pound. Our overall operating results are impacted by currency translation, which represents the effect of translating operating results where the functional currency is different than our U.S. dollar reporting currency.

Our operating results are also impacted by transactional currency. The impact of the transactional currency represents the effect of converting revenue and expense transactions occurring in a currency other than the functional currency. Changes in currency exchange rates directly impact the calculation of gross dollar volume ("GDV") and gross euro volume ("GEV"), which are used in the calculation of our domestic assessments, cross-border volume fees and certain volume-related rebates and incentives. In most non-European regions, GDV is calculated based on local currency spending volume converted to U.S. dollars using average exchange rates for the period. In Europe, GEV is calculated based on local currency spending volume converted to the strengthening or weakening of the euro versus other European local currencies. For example, our billing in Australia is in the U.S. dollar, however, consumer spend in Australia is in the Australian dollar. The currency transactional impact of converting Australian dollars to our U.S. dollar billing currency will have an impact on the revenue generated. The strengthening or weakening of the U.S. dollar is evident when GDV growth on a U.S. dollar-converted basis is compared to GDV growth on a local currency basis increased 2.0%, while GDV on a local currency basis increased 13.1% versus 2018. Further, the impact from transactional currency occurs in transaction processing revenue, other revenue and operating expenses when the local currency of these items is different than the functional currency of the entity.

The translational and transactional impact of currency ("Currency impact") has been identified in our drivers of change tables and has been excluded from our currencyneutral growth rates, which are non-GAAP financial measures. See "Financial Results - Revenue and Operating Expenses" for our drivers of change impact tables and "Non-GAAP Financial Information" for further information on our non-GAAP adjustments.

2021 Hedge Accounting Designation

Through December 31, 2020, our approach to manage our transactional currency exposure consisted of hedging a portion of anticipated revenues impacted by transactional currencies by entering into foreign exchange derivative contracts, and recording the related changes in fair value in general and administrative expenses on the consolidated statement of operations. Beginning in January 2021, we started to formally designate certain newly-executed foreign exchange derivative contracts, which meet the established accounting criteria, as cash flow hedges. Starting in the first quarter of 2021, gains and losses resulting from changes in fair value of these designated contracts will be deferred in accumulated other comprehensive income (loss) and subsequently recognized in the respective component of net revenue when the underlying forecasted transactions impact earnings. The related impact of our foreign exchange cash flow hedging activities will be excluded from our currency-neutral growth rates as part of our Currency impact.

Foreign Exchange Activity

We incur foreign currency gains and losses from remeasuring monetary assets and liabilities, including settlement receivables and payables with our customers, that are denominated in a currency other than the functional currency of the entity. To manage this foreign exchange risk, we may enter into foreign exchange derivative contracts to economically hedge the foreign currency exposure of a portion of our nonfunctional monetary assets and liabilities. The gains or losses resulting from changes in fair value of these contracts are intended to reduce the potential effect of the underlying hedged exposure and are recorded net within general and

administrative expenses on the consolidated statement of operations. The impact of foreign exchange activity, including the related hedging activities, has not been eliminated in our currency-neutral results.

Our foreign exchange risk management activities are discussed further in Note 23 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part II, Item 8.

Risk of Currency Devaluation

We are exposed to currency devaluation in certain countries. In addition, we are subject to exchange control regulations that restrict the conversion of financial assets into U.S. dollars. While these revenues and assets are not material to us on a consolidated basis, we can be negatively impacted should there be a continued and sustained devaluation of local currencies relative to the U.S. dollar and/or a continued and sustained deterioration of economic conditions in these countries.

Financial Results

Revenue

Primary drivers of net revenue, versus the prior year, were as follows:

Gross revenue decreased 5%, or 4% on a currency-neutral basis, driven by decreased cross-border volumes reflecting impacts of the COVID-19 outbreak, partially offset by increases in our value-added products and services and the number of switched transactions. Gross dollar volume of \$6.3 trillion was flat.

Rebates and incentives increased 3%, or 4% on a currency-neutral basis, due to new and renewed deals partially offset by a favorable mix of volume-based incentives.

Net revenue decreased 9%, or 8% on a currency-neutral basis, including 1 percentage point of growth from our acquisitions.

See Note 3 (Revenue) to the consolidated financial statements included in Part II, Item 8 for a further discussion of how we recognize revenue.

The components of net revenue were as follows:

	For th	e Years	Ended Decem	ber 31,		Increase (Decrease)
	 2020		2019	2019 2018		2020	2019
				(\$	in millions)		
Domestic assessments	\$ 6,656	\$	6,781	\$	6,138	(2)%	10%
Cross-border volume fees	3,512		5,606		4,954	(37)%	13%
Transaction processing	8,731		8,469		7,391	3%	15%
Other revenues	4,717		4,124		3,348	14%	23%
Gross revenue	 23,616		24,980		21,831	(5)%	14%
Rebates and incentives (contra-revenue)	(8,315)		(8,097)		(6,881)	3%	18%
Net revenue	\$ 15,301	\$	16,883	\$	14,950	(9)%	13%

The following table summarizes the drivers of change in net revenue:

		For the Years Ended December 31,									
	Volu	Volume		Acquisitions		Currency Impact ¹		Other ²		Total	
	2020	2019		2020	2019	2020	2019	2020	2019	2020	2019
Domestic assessments	-%	13%		-%	-%	(3)%	(3)%	1 % ³	1 % ³	(2)%	10 %
Cross-border volume fees	(30)%	14%		-%	-%	-%	(3)%	(7)%	2 %	(37)%	13 %
Transaction processing	3%	14%		-%	-%	-%	(2)%	— %	3 %	3 %	15 %
Other revenues	**	**		3%	2%	(1)%	(1)%	12 % ⁴	22 % ⁴	14 %	23 %
Rebates and incentives	(6)% ⁵	9%	5	-%	-%	(2)%	(3)%	10 % 6	11 % 6	3 %	18 %
Net revenue	(5)%	13%		1%	1%	(1)%	(3)%	(4)%	2 %	(9)%	13 %

Note: Table may not sum due to rounding

** Not applicable

¹ Represents the translational and transactional impact of currency.

² Includes impact from pricing, other non-volume based fees and geographic mix.

³ Includes impact of the allocation of revenue to service deliverables, which are primarily recorded in other revenue when services are performed.

⁴ Includes impacts from cyber and intelligence fees, data analytics and consulting fees and other payment-related products and services.

⁵ Includes the impact from mix on volume-based incentives.

⁶ Includes the impact of new, renewed and expired agreements.

The following tables provide a summary of the trend in volumes and transactions.

	Fo	For the Years Ended December 31,						
	2020	2020						
		Increase/(De	crease)					
	USD	Local	USD	Local				
Mastercard-branded GDV ¹	(2)%	- %	10 %	13 %				
Asia Pacific/Middle East/Africa	(3)%	(2)%	8 %	12 %				
Canada	(4)%	(3)%	4 %	7 %				
Europe	(2)%	1 %	12 %	18 %				
Latin America	(17)%	(2)%	9 %	15 %				
United States	2 %	2 %	10 %	10 %				
Cross-border volume 1		(29)%		16 %				

¹ Excludes volume generated by Maestro and Cirrus cards.

For the Years End	ded December 31,	
Increase/	(Decrease)	
2020	2019	
3 %	19 %	

No individual country, other than the United States, generated more than 10% of net revenue in any such period. A significant portion of our net revenue is concentrated among our five largest customers. In 2020, the net revenue from these customers was approximately \$3.4 billion, or 22%, of total net revenue. The loss of any of these customers or their significant card programs could adversely impact our revenue.

Operating Expenses

Operating expenses were flat in 2020 versus the prior year. Adjusted operating expenses decreased 1% on both an as adjusted and a currency-neutral basis versus the prior year. Current year results include growth of approximately 4 percentage points from acquisitions. Excluding acquisitions, expenses declined 5% primarily due to reduced spending on advertising and marketing, travel and professional fees, partially offset by higher personnel and data processing costs to support continued investment in our strategic initiatives.

The components of operating expenses were as follows:

	For the Years Ended December 31,			Increase (De	crease)							
	2020		2020		2019		2019		2018		2020	2019
					(\$	in millions)						
General and administrative	\$	5,910	\$	5,763	\$	5,174	3 %	11 %				
Advertising and marketing		657		934		907	(30)%	3 %				
Depreciation and amortization		580		522		459	11 %	14 %				
Provision for litigation		73		_		1,128	**	**				
Total operating expenses		7,220		7,219		7,668	— %	(6)%				
Special Items ¹		(73)		_		(1,128)	**	**				
Adjusted operating expenses (excluding Special Items ¹)	\$	7,147	\$	7,219	\$	6,540	(1)%	10 %				

Note: Table may not sum due to rounding.

** Not meaningful

¹ See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

The following table summarizes the drivers of changes in operating expenses:

		For the Years Ended December 31,								
	Opera	Special Operational Items ¹			Acquisi	itions	Currency	Impact ²	Total	
	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019
General and administrative	(1)%	11 %	**	**	4 %	2 %	— %	(2)%	3 %	11 %
Advertising and marketing	(30)%	5 %	**	**	— %	— %	(1)%	(2)%	(30)%	3 %
Depreciation and amortization	5%	9 %	**	**	6 %	7 %	— %	(2)%	11 %	14 %
Provision for litigation	**	**	**	**	**	**	**	**	**	**
Total operating expenses	(5)%	10 %	1 %	(16)%	4 %	2 %	— %	(2)%	— %	(6)%

Note: Table may not sum due to rounding.

** Not meaningful

¹ See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

² Represents the translational and transactional impact of currency.

General and Administrative

General and administrative expenses increased 3% on both an as reported and a currency-neutral basis in 2020 versus the prior year. Current year results include growth of approximately 4 percentage points from acquisitions. Excluding acquisitions, expenses declined 1% primarily due to reduced spending on travel and professional fees, partially offset by an increase in personnel and data processing costs to support continued investment in our strategic initiatives.

The components of general and administrative expenses were as follows:

For the Years Ende			Ended Dec	embe	r 31,	Increase (Decrease)	
	2020		2019		2018	2020	2019	
				(\$ iı	n millions)			
\$	3,787	\$	3,537	\$	3,214	7%	10%	
	384		447		377	(14)%	19%	
	756		666		600	14%	11%	
	9		32		(36)	**	**	
	974		1,081		1,019	(10)%	6%	
	5,910		5,763		5,174	3%	11%	

Note: Table may not sum due to rounding.

** Not meaningful

Foreign exchange activity includes gains and losses on foreign exchange derivative contracts and the impact of remeasurement of assets and liabilities denominated in foreign currencies. See Note 23 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part II, Item 8 for further discussion.

Advertising and Marketing

Advertising and marketing expenses decreased 30%, or 29% on a currency-neutral basis in 2020 versus the prior year, primarily due to lower advertising and sponsorship spend in response to COVID-19.

Depreciation and Amortization

Depreciation and amortization expenses increased 11% on both an as reported and a currency-neutral basis in 2020 versus the prior year. Current year results include growth of approximately 6 percentage points from acquisitions. The remaining increase was primarily due to higher depreciation from capital investments.

Provision for Litigation

In 2020, we recorded \$73 million related to various litigation settlements and legal costs. There were no litigation charges in the prior year. See Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8 for further discussion.

Other Income (Expense)

Other income (expense) was unfavorable in 2020 versus the prior year primarily due to increased interest expense related to our recent debt issuances, as well as lower net gains in the current year versus the prior year related to unrealized fair market value adjustments on marketable and non-marketable equity securities and a decrease in our investment income.

The components of other income (expense) were as follows:

		For the Years Ended December 31,									
		2020		9 2018		2020	2019				
	(\$ in millions)										
nvestment Income	\$	24	\$ 97	\$	122	(75)%	(21)%				
ains (losses) on equity investments, net		30	167		-	(82)%	**				
nterest expense		(380)	(224)		(186)	70 %	20 %				
Other income (expense), net		5	27		(14)	(81)%	**				
otal other income (expense)		(321)	67		(78)	**	**				

Note: Table may not sum due to rounding. ** Not meaningful

Income Taxes

The effective income tax rates for the years ended December 31, 2020 and 2019 were 17.4% and 16.6%, respectively. The effective income tax rate for 2020 was higher than the prior year, primarily due to discrete tax benefits in 2019, partially offset by a more

favorable geographic mix of earnings in 2020. The 2019 discrete tax benefits related to a favorable court ruling, a reduction to the Company's transition tax liability and additional foreign tax credits which can be carried back under U.S tax reform transition rules issued by the Department of the Treasury and the Internal Revenue Service.

The adjusted effective income tax rates for the years ended December 31, 2020 and 2019 were 17.2% and 17.0%, respectively. The adjusted effective income tax rate was higher than the prior year, primarily due to a discrete tax benefit related to a favorable court ruling in 2019.

See Note 20 (Income Taxes) to the consolidated financial statements included in Part II, Item 8 for further discussion.

Liquidity and Capital Resources

We rely on existing liquidity, cash generated from operations and access to capital to fund our global operations, credit and settlement exposure, capital expenditures, investments in our business and current and potential obligations. The following table summarizes the cash, cash equivalents, investments and credit available to us at December 31:

	2020	2019
	(in billions)	
n, cash equivalents and investments ¹	\$ 10.6 \$	7.7
sed line of credit	6.0	6.0

Investments include available-for-sale securities and held-to-maturity securities. This amount excludes restricted cash and restricted cash equivalents of \$2.3 billion and \$2.0 billion at December 31, 2020 and 2019, respectively.

We believe that our existing cash, cash equivalents and investment securities balances, our cash flow generating capabilities, and our access to capital resources are sufficient to satisfy our future operating cash needs, capital asset purchases, outstanding commitments and other liquidity requirements associated with our existing operations and potential obligations.

Our liquidity and access to capital could be negatively impacted by global credit market conditions. We guarantee the settlement of many of the transactions between our customers. Historically, payments under these guarantees have not been significant; however, historical trends may not be an indication of potential future losses. The risk of loss on these guarantees is specific to individual customers, but may also be driven by regional or global economic conditions, including, but not limited to the health of the financial institutions in a country or region. See Note 22 (Settlement and Other Risk Management) to the consolidated financial statements in Part II, Item 8 for a description of these guarantees.

Our liquidity and access to capital could also be negatively impacted by the outcome of any of the legal or regulatory proceedings to which we are a party. For additional discussion of these and other risks facing our business, see Part I, Item 1A - Risk Factors - Legal and Regulatory Risks and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8.

Cash Flow

The table below shows a summary of the cash flows from operating, investing and financing activities:

	For the Years Ended December				r 31,
	2020 2019		2019	2018	
		(in	millions)		
sh provided by operating activities	\$ 7,224	\$	8,183	\$	6,223
ash used in investing activities	(1,879)		(1,640)		(506)
ish used in financing activities	(2,152)		(5,867)		(4,966)

Net cash provided by operating activities decreased \$1.0 billion in 2020 versus the prior year, primarily due to lower net income adjusted for non-cash items, partially offset by a decrease in litigation payments.

Net cash used in investing activities increased \$239 million in 2020 versus the prior year, primarily due to lower net proceeds from our investments in available-for-sale and held-to-maturity securities, partially offset by higher prior year acquisition payments.

Net cash used in financing activities decreased \$3.7 billion in 2020 versus the prior year, primarily due to lower repurchases of our Class A common stock, higher net debt proceeds in the current period and the repayment of debt that matured in the prior year.

Debt and Credit Availability

In March 2020, we issued \$1 billion principal amount of notes due March 2027, \$1.5 billion principal amount of notes due March 2030 and \$1.5 billion principal amount notes due March 2050. Our total debt outstanding was \$12.7 billion at December 31, 2020, with the earliest maturity of \$650 million of principal occurring in November 2021.

As of December 31, 2020, we have a commercial paper program (the "Commercial Paper Program"), under which we are authorized to issue up to \$6 billion in outstanding notes, with maturities up to 397 days from the date of issuance. In conjunction with the Commercial Paper Program, we have a committed unsecured \$6 billion revolving credit facility (the "Credit Facility") which, in 2020, was extended for an additional year and now expires in November 2025.

Borrowings under the Commercial Paper Program and the Credit Facility are to provide liquidity for general corporate purposes, including providing liquidity in the event of one or more settlement failures by our customers. In addition, we may borrow and repay amounts under these facilities for business continuity purposes. We had no borrowings outstanding under the Commercial Paper Program or the Credit Facility at December 31, 2020.

See Note 15 (Debt) to the consolidated financial statements included in Part II, Item 8 for further discussion on our debt, the Commercial Paper Program and the Credit Facility.

Dividends and Share Repurchases

We have historically paid quarterly dividends on our outstanding Class A common stock and Class B common stock. Subject to legally available funds, we intend to continue to pay a quarterly cash dividend. The declaration and payment of future dividends is at the sole discretion of our Board of Directors after taking into account various factors, including our financial condition, operating results, available cash and current and anticipated cash needs.

The following table summarizes the annual, per share dividends paid in the years reflected:

For the Years Ended December 31,				
 2020	2019		2018	
 (in milli	ons, exce	pt per sh	are data	ı)
\$ 1.60	\$	1.32	\$	1.00
\$ 1,605	\$	1,345	\$	1,044
\$	2020 (in milli \$ 1.60	2020 20 (in millions, excent) \$ 1.60 \$	2020 2019 (in millions, except per sha \$ 1.60 \$ 1.32	2020 2019 2010 (in millions, except per share data \$ 1.60 \$ 1.32 \$

On December 8, 2020, our Board of Directors declared a quarterly cash dividend of \$0.44 per share paid on February 9, 2021 to holders of record on January 8, 2021 of our Class A common stock and Class B common stock. The aggregate amount of this dividend was \$439 million.

On February 8, 2021, our Board of Directors declared a quarterly cash dividend of \$0.44 per share payable on May 7, 2021 to holders of record on April 9, 2021 of our Class A common stock and Class B common stock. The aggregate amount of this dividend is estimated to be \$437 million.

Repurchased shares of our common stock are considered treasury stock. In December 2020, 2019 and 2018, our Board of Directors approved share repurchase programs authorizing us to repurchase up to \$6.0 billion, \$8.0 billion and \$6.5 billion, respectively, of our Class A common stock. The program approved in 2020 will become effective after completion of the share repurchase program authorized in 2019. The timing and actual number of additional shares repurchased will depend on a variety of factors, including cash requirements to meet the operating needs of the business, legal requirements, as well as the share price and economic and market conditions. The following table summarizes our share repurchase activity of our Class A common stock through December 31, 2020, under the plans approved in 2019 and 2018:

	(in mill	ions, except per share data)
Remaining authorization at December 31, 2019	\$	8,304
Dollar-value of shares repurchased in 2020	\$	4,473
Remaining authorization at December 31, 2020	\$	9,831
Shares repurchased in 2020		14.3
Average price paid per share in 2020	\$	312.68

See Note 16 (Stockholders' Equity) to the consolidated financial statements included in Part II, Item 8 for further discussion.

Critical Accounting Estimates

The application of GAAP requires us to make estimates and assumptions about certain items and future events that directly affect our reported financial condition. Our significant accounting policies, including recent accounting pronouncements, are described in Note 1 (Summary of Significant Accounting Policies) to the consolidated financial statements included in Part II, Item 8.

Revenue Recognition - Rebates and Incentives

We enter into business agreements with certain customers that provide for rebates or support when customers meet certain volume thresholds as well as other support incentives, which are tied to customer performance. We consider various factors in estimating customer performance, including forecasted transactions, card issuance and card conversion volumes, expected payments and historical experience with that customer. Rebates and incentives are recorded as a reduction to gross revenue based on these estimates primarily when volume- and transaction- based revenues are recognized over the contractual term. Differences between actual results and our estimates are adjusted in the period the customer reports actual performance. If our customers' actual performance is not consistent with our estimates of their performance, net revenue may be materially different.

Loss Contingencies

We are currently involved in various claims and legal proceedings. We regularly review the status of each significant matter and assess its potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount can be reasonably estimated, we accrue a liability for the estimated loss. Significant judgment is required in both the determination of probability and whether an exposure is reasonably estimable. Our judgments are subjective based on the status of the legal or regulatory proceedings, the merits of our defenses and consultation with in-house and outside legal counsel. Because of uncertainties related to these matters, accruals are based only on the best information available at the time. As additional information becomes available, we reassess the potential liability related to pending claims and litigation and may revise our estimates. Due to the inherent uncertainties of the legal and regulatory process in the multiple jurisdictions in which we operate, our judgments may be materially different than the actual outcomes.

Income Taxes

In calculating our effective income tax rate, estimates are required regarding the timing and amount of taxable and deductible items which will adjust the pretax income earned in various tax jurisdictions. Through our interpretation of local tax regulations, adjustments to pretax income for income earned in various tax jurisdictions. Although we believe that our estimates and judgments discussed herein are reasonable, actual results may be materially different than the estimated amounts.

We record a valuation allowance to reduce our deferred tax assets to the amount that is more likely than not to be realized. Significant judgment is required in determining the valuation allowance. In assessing the need for a valuation allowance, we consider all sources of taxable income including, projected future taxable income, reversing taxable temporary differences and ongoing tax planning strategies. If it is determined that we are able to realize deferred tax assets in excess of the net carrying value or to the extent we are unable to realize a deferred tax asset, we would adjust the valuation allowance in the period in which such a determination is made, with a corresponding increase or decrease to earnings.

We record tax liabilities for uncertain tax positions taken, or expected to be taken, which may not be sustained or may only be partially sustained, upon examination by the relevant taxing authorities. We consider all relevant facts and current authorities in the tax law in assessing whether any benefit resulting from an uncertain tax position is more likely than not to be sustained and, if so, how current law impacts the amount reflected within these financial statements. If upon examination, we realize a tax benefit which is not fully sustained or is more favorably sustained, this would decrease or increase earnings in the period. In certain situations, we will have offsetting tax credits or taxes in other jurisdictions.

Deferred taxes are established on the estimated foreign exchange gains or losses for foreign earnings that are not considered permanently reinvested, which will be recognized through cumulative translation adjustments as incurred. Ultimately, the working capital requirements of foreign affiliates will determine the amount of cash to be remitted from respective jurisdictions.

Business Combinations

We account for our business combinations using the acquisition method of accounting. The acquisition purchase price, including contingent consideration, is allocated to the underlying identified, tangible and intangible assets, liabilities assumed and any non-controlling interest in the acquiree, based on their respective estimated fair values on the acquisition date. Any excess of purchase price over the fair value of net assets acquired, including identifiable intangible assets, is recorded as goodwill. The amounts and useful lives assigned to acquisition-related tangible and intangible assets impact the amount and timing of future amortization

expense. We use various valuation techniques to determine fair value, primarily discounted cash flows analysis, relief-from-royalty and multi-period excess earnings for estimating the value of intangible assets. These valuation techniques included comparable company multiples, discount rates, growth projections and other assumptions of future business conditions. Determining the fair value of assets acquired, liabilities assumed, any non-controlling interest in the acquiree and the expected useful lives, requires management's judgment. The significance of management's estimates and assumptions is relative to the size of the acquisition. Our estimates are based upon assumptions believed to be reasonable, but which are inherently uncertain and unpredictable.

Item 7A. Quantitative and qualitative disclosures about market risk

Market risk is the potential for economic losses to be incurred on market risk sensitive instruments arising from adverse changes in factors such as interest rates and foreign currency exchange rates. Our exposure to market risk from changes in interest rates and foreign exchange rates is limited. Management monitors risk exposures on an ongoing basis and establishes and oversees the implementation of policies governing our funding, investments and use of derivative financial instruments to manage these risks.

Foreign currency and interest rate exposures are managed through our risk management activities, which are discussed further in Note 23 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part II, Item 8.

Foreign Exchange Risk

We enter into foreign exchange derivative contracts to manage currency exposure associated with anticipated receipts and disbursements occurring in a currency other than the functional currency of the entity. We may also enter into foreign currency derivative contracts to offset possible changes in value of assets and liabilities due to foreign exchange fluctuations. The objective of these activities is to reduce our exposure to transaction gains and losses resulting from fluctuations of foreign currencies against our functional and reporting currencies, principally the U.S. dollar and euro. The effect of a hypothetical 10% adverse change in the value of the functional currencies could result in a fair value loss of approximately \$58 million and \$144 million on our foreign exchange derivative contracts outstanding at December 31, 2020 and 2019, respectively, before considering the offsetting effect of the underlying hedged activity.

We are also subject to foreign exchange risk as part of our daily settlement activities. To manage this risk, we enter into short duration foreign exchange contracts based upon anticipated receipts and disbursements for the respective currency position. This risk is typically limited to a few days between when a payment transaction takes place and the subsequent settlement with our customers. The effect of a hypothetical 10% adverse change in the value of the functional currencies could result in a fair value loss of approximately \$23 million on our short duration foreign exchange derivative contracts outstanding at December 31, 2020. The Company did not have any outstanding short duration foreign exchange derivative to this activity at December 31, 2019.

Interest Rate Risk

Our available-for-sale debt investments include fixed and variable rate securities that are sensitive to interest rate fluctuations. Our policy is to invest in high quality securities, while providing adequate liquidity and maintaining diversification to avoid significant exposure. A hypothetical 100 basis point adverse change in interest rates would not have a material impact to the fair value of our investments at December 31, 2020 and 2019.

Item 8. Financial statements and supplementary data

Mastercard Incorporated Index to consolidated financial statements

	Page
As of December 31, 2020 and 2019 and for the years ended December 31, 2020, 2019 and 2018	
Management's report on internal control over financial reporting	57
Report of independent registered public accounting firm	58
Consolidated Statement of Operations	60
Consolidated Statement of Comprehensive Income	61
Consolidated Balance Sheet	62
Consolidated Statement of Changes in Equity	63
Consolidated Statement of Cash Flows	65
Notes to consolidated financial statements	66

Management's report on internal control over financial reporting

The management of Mastercard Incorporated ("Mastercard") is responsible for establishing and maintaining adequate internal control over financial reporting. 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 reporting purposes in accordance with accounting principles generally accepted in the United States of America. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. As required by Section 404 of the Sarbanes-Oxley Act of 2002, management has assessed the effectiveness of Mastercard's internal control over financial reporting as of December 31, 2020. In making its assessment, management has utilized the criteria set forth in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Management has concluded that, based on its assessment, Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of December 31, 2020. The effectiveness of Mastercard's internal control over financial reporting was effective as of Decembe

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Mastercard Incorporated

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of Mastercard Incorporated and its subsidiaries (the "Company") as of December 31, 2020 and 2019 and the related consolidated statements of operations, comprehensive income, changes in equity and cash flows for each of the three years in the period ended December 31, 2020, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited 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 (COSO).

In our opinion, the consolidated financial statements referred to above 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. Also 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 the COSO.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, 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 Report on internal control over financial reporting. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (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 audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated 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 consolidated 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 consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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 (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) 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 (iii) 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.

Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated 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.

Revenue Recognition - Rebates and Incentives

As described in Notes 1 and 3 to the consolidated financial statements, the Company provides certain customers with rebates or incentives which totaled \$8.3 billion for the year ended December 31, 2020. The Company has business agreements with certain customers that provide for rebates or other support when customers meet certain volume hurdles as well as other support incentives, which are tied to performance. Rebates and incentives are recorded as a reduction of gross revenue primarily when volume- and transaction-based revenues are recognized over the contractual term. Rebates and incentives are calculated based upon estimated customer performance and the terms of the related business agreements. As disclosed by management, various factors are considered in estimating customer performance, including forecasted transactions, card issuance and card conversion volumes, expected payments and historical experience with that customer.

The principal considerations for our determination that performing procedures relating to rebates and incentives is a critical audit matter are (i) the significant judgment by management when developing estimates related to rebates and incentives based on customer performance; and (ii) a high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating management's estimates related to customer performance, including the reasonableness of the various applicable factors considered by management in the estimate.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to rebates and incentives, including controls over evaluating estimated customer performance. These procedures also included, among others, evaluating the reasonableness of estimated customer performance for a sample of customer agreements, including (i) evaluating rebate and incentive contracts to identify whether all incentives are identified and recorded accurately; (ii) testing management's process for developing estimated customer performance, including evaluating the reasonableness of the various applicable factors considered by management; and (iii) evaluating estimated customer performance as compared to actual results in the period the customer reports actual performance.

/s/ PricewaterhouseCoopers LLP

New York, New York February 12, 2021

We have served as the Company's auditor since 1989.

Consolidated Statement of Operations

	For the Years Ended December 31,							
	 2020							
	 (in m	illions, e	xcept per share	e data)				
Net Revenue	\$ 15,301	\$	16,883	\$	14,950			
Operating Expenses								
General and administrative	5,910		5,763		5,174			
Advertising and marketing	657		934		907			
Depreciation and amortization	580		522		459			
Provision for litigation	73		_		1,128			
Total operating expenses	7,220		7,219		7,668			
Operating income	8,081		9,664		7,282			
Other Income (Expense)								
Investment income	24		97		122			
Gains (losses) on equity investments, net	30		167		—			
Interest expense	(380)		(224)		(186)			
Other income (expense), net	5		27		(14)			
Total other income (expense)	(321)		67		(78)			
Income before income taxes	7,760		9,731		7,204			
Income tax expense	1,349		1,613		1,345			
Net Income	\$ 6,411	\$	8,118	\$	5,859			
Basic Earnings per Share	\$ 6.40	\$	7.98	\$	5.63			
Basic weighted-average shares outstanding	1,002		1,017		1,041			
Diluted Earnings per Share	\$ 6.37	\$	7.94	\$	5.60			
Diluted weighted-average shares outstanding	1,006		1,022		1,047			

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

Consolidated Statement of Comprehensive Income

	For the Years Ended December 31,					
	2020	20	19		2018	
		(in mil	llions)			
Net Income	\$ 6,411	\$	8,118	\$	5,859	
Other comprehensive income (loss):						
Foreign currency translation adjustments	345		10		(319)	
Income tax effect	 (59)		13		40	
Foreign currency translation adjustments, net of income tax effect	 286		23		(279)	
Translation adjustments on net investment hedge	(177)		36		96	
Income tax effect	 40		(8)		(21)	
Translation adjustments on net investment hedge, net of income tax effect	 (137)		28		75	
Cash flow hedges	(189)		14		_	
Income tax effect	42		(3)		—	
Reclassification adjustment for cash flow hedges	4		—		-	
Income tax effect	 (1)		_		_	
Cash flow hedges, net of income tax effect	 (144)		11			
Defined benefit pension and other postretirement plans	(12)		(21)		(16)	
Income tax effect	2		3		3	
Reclassification adjustment for defined benefit pension and other postretirement plans	(1)		(1)		(2	
Income tax effect	 _		_		_	
Defined benefit pension and other postretirement plans, net of income tax effect	 (11)		(19)		(15	
Investment securities available-for-sale	(1)		3		(3)	
Income tax effect	 _		(1)		1	
Investment securities available-for-sale, net of income tax effect	 (1)		2		(2)	
Other comprehensive income (loss), net of income tax effect	 (7)		45		(221)	
Comprehensive Income	\$ 6,404	\$	8,163	\$	5,638	

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

Consolidated Balance Sheet

		December 31,		
	2020 20			2019
		(in millions, exce	pt per sh	are data)
Assets				
Current assets:		10.110	<u> </u>	6.00
Cash and cash equivalents	\$	10,113	\$	6,988
Restricted cash for litigation settlement		586		584
Investments		483		688
Accounts receivable		2,646		2,514
Settlement due from customers		1,706		2,995
Restricted security deposits held for customers		1,696		1,370
Prepaid expenses and other current assets		1,883		1,763
Total current assets		19,113		16,902
Property, equipment and right-of-use assets, net		1,902		1,828
Deferred income taxes		491		543
Goodwill		4,960		4,023
Other intangible assets, net		1,753		1,41
Other assets		5,365		4,52
Total Assets	\$	33,584	\$	29,23
Liabilities, Redeemable Non-controlling Interests and Equity				
Current liabilities:				
Accounts payable	\$	527	\$	48
Settlement due to customers		1,475		2,714
Restricted security deposits held for customers		1,696		1,37
Accrued litigation		842		914
Accrued expenses		5,430		5,489
Current portion of long-term debt		649		-
Other current liabilities		1,228		928
Total current liabilities		11,847		11,904
Long-term debt		12,023		8,52
Deferred income taxes		86		8
Other liabilities	_	3,111		2,729
Total Liabilities		27,067		23,24
Commitments and Contingencies				
Redeemable Non-controlling Interests		29		7
Stockholders' Equity				
Class A common stock, \$0.0001 par value; authorized 3,000 shares, 1,396 and 1,391 shares issued and 987 and 996 shares outstanding, respectively		_		-
Class B common stock, \$0.0001 par value; authorized 1,200 shares, 8 and 11 shares issued and outstanding, respectively		_		-
Additional paid-in-capital		4,982		4,78
Class A treasury stock, at cost, 409 and 395 shares, respectively		(36,658)		(32,205
Retained earnings		38,747		33,984
Accumulated other comprehensive income (loss)		(680)		(673
Mastercard Incorporated Stockholders' Equity		6,391		5,89
Non-controlling interests		97		2
Total Equity		6,488		5,91

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

Consolidated Statement of Changes in Equity

					Stockhol	ders' I	Equity						
	 Comm ass A	 ock ass B	Pa	litional aid-In apital	Class A Treasury Stock		tained rnings		Accumulated Other Comprehensive Income (Loss)	Mastercard Incorporated Stockholders' Equity	Non- ntrolling nterests		Total Equity
						(in m	nillions, e	exce	pt per share data)				
Balance at December 31, 2017	\$ -	\$ -	\$	4,365	\$ (20,764)	\$	22,364	\$	(497)	\$ 5,468	\$ 29	\$	5,497
Adoption of revenue standard	—	—		_	_		366		_	366	_		366
Adoption of intra-entity asset transfers standard	_	_		_	_		(183)		_	(183)	_		(183)
Net income	_	_		_	_		5,859		_	5,859	_		5,859
Activity related to non- controlling interests	_	_		_	_		_		_	_	(6)		(6)
Redeemable non-controlling interest adjustments	_	_		_	_		(3)		_	(3)	_		(3)
Other comprehensive income (loss)	_	_		_	_		_		(221)	(221)	_		(221)
Dividends	_	_		_	_		(1,120)		_	(1,120)	_		(1,120)
Purchases of treasury stock	_	_		_	(4,991)		_		_	(4,991)	_		(4,991)
Share-based payments	 —	—		215	 5		_		—	 220	 _	_	220
Balance at December 31, 2018	—	—		4,580	(25,750)	:	27,283		(718)	5,395	 23		5,418
Net income	—	—		_	_		8,118		_	8,118	_		8,118
Activity related to non- controlling interests	_	_		_	_		_		_	_	1		1
Redeemable non-controlling interest adjustments	_	_		_	_		(9)		_	(9)	_		(9)
Other comprehensive income (loss)	_	_		_	_		_		45	45	_		45
Dividends	_	_		_	_		(1,408)		_	(1,408)	_		(1,408)
Purchases of treasury stock	_	_		_	(6,463)		_		_	(6,463)	_		(6,463)
Share-based payments	_	_		207	8		_		_	215	_		215
Balance at December 31, 2019	 _	 _		4,787	 (32,205)	:	33,984		(673)	 5,893	24		5,917

Consolidated Statement of Changes in Equity (Continued)

						S	tockhol	ders' Equity				
	Comr	non St	:ock		Additional Paid-In	Clas Trea	ss A Isury	Retained	Accumulated Other Comprehensive	Mastercard Incorporated Stockholders'	Non- Controlling	Total
	Clas	ss A	Clas	s B	Capital		ock	Earnings	Income (Loss)	Equity	Interests	Equity
								(in millions, e	xcept per share data)			
Balance at December 31, 2019		—		—	4,787	(3	2,205)	33,984	(673)	5,893	24	5,917
Net income		—		—	—		—	6,411	-	6,411	—	6,411
Activity related to non- controlling interests		_		_	_		_	_	_	_	73	73
Redeemable non-controlling interest adjustments		_		_	_		_	(7)	_	(7)	_	(7)
Other comprehensive income (loss)		_		_	_		_	_	(7)	(7)	_	(7)
Dividends		_		—	_		_	(1,641)	_	(1,641)	_	(1,641)
Purchases of treasury stock		_		—	_	(-	4,459)	_	_	(4,459)	_	(4,459)
Share-based payments		_		—	195		6	_	_	201	_	201
Balance at December 31, 2020	\$	_	\$	_	\$ 4,982	\$ (3	6,658)	\$ 38,747	\$ (680)	\$ 6,391	\$ 97	\$ 6,488

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

Consolidated Statement of Cash Flows

		For the Years Ended Decembe			nber 3	oer 31,		
		2020 20			2019 20			
			(in mi	llions)				
Operating Activities								
Net income	\$	6,411	\$	8,118	\$	5,859		
Adjustments to reconcile net income to net cash provided by operating activities:								
Amortization of customer and merchant incentives		1,072		1,141		1,235		
Depreciation and amortization		580		522		459		
(Gains) losses on equity investments, net		(30)		(167)		-		
Share-based compensation		254		250		196		
Deferred income taxes		73		(7)		(244)		
Other		14		24		31		
Changes in operating assets and liabilities:								
Accounts receivable		(86)		(246)		(317)		
Income taxes receivable		(2)		(202)		(120)		
Settlement due from customers		1,288		(444)		(1,078)		
Prepaid expenses		(1,552)		(1,661)		(1,769)		
Accrued litigation and legal settlements		(73)		(662)		869		
Restricted security deposits held for customers		326		290		(6)		
Accounts payable		26		(42)		101		
Settlement due to customers		(1,242)		477		849		
Accrued expenses		(114)		657		439		
Long-term taxes payable		(37)		2		(20)		
Net change in other assets and liabilities		316		133		(261)		
Net cash provided by operating activities		7,224		8,183		6,223		
Investing Activities								
Purchases of investment securities available-for-sale		(220)		(643)		(1,300)		
Purchases of investments held-to-maturity		(198)		(215)		(509)		
Proceeds from sales of investment securities available-for-sale		361		1,098		604		
Proceeds from maturities of investment securities available-for-sale		140		376		379		
Proceeds from maturities of investments held-to-maturity		121		383		929		
Purchases of property and equipment		(339)		(422)		(330)		
Capitalized software		(369)		(306)		(174)		
Purchases of equity investments		(214)		(467)		(91)		
Acquisition of businesses, net of cash acquired		(989)		(1,440)		_		
Settlement of interest rate derivative contracts		(175)		_		_		
Other investing activities		3		(4)		(14)		
Net cash used in investing activities		(1,879)		(1,640)		(506)		
Financing Activities								
Purchases of treasury stock		(4,473)		(6,497)		(4,933)		
Dividends paid		(1,605)		(1,345)		(1,044)		
Proceeds from debt, net		3,959		2,724		991		
Payment of debt		_		(500)		_		
Acquisition of redeemable non-controlling interests		(49)		_		_		
Contingent consideration paid		_		(199)		_		
Tax withholdings related to share-based payments		(150)		(161)		(80)		
Cash proceeds from exercise of stock options		97		126		104		
Other financing activities		69		(15)		(4)		
Net cash used in financing activities		(2,152)		(5,867)		(4,966)		
Effect of exchange rate changes on cash, cash equivalents, restricted cash and restricted cash equivalents		257		(44)		(6)		
Net increase in cash, cash equivalents, restricted cash and restricted cash equivalents	·	3,450		632		745		
Cash, cash equivalents, restricted cash and restricted cash equivalents - beginning of period		8,969		8,337		7,592		
······································	\$	12,419	\$	8,969	\$	8,337		

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

Notes to consolidated financial statements

Note 1. Summary of Significant Accounting Policies

Organization

Mastercard Incorporated and its consolidated subsidiaries, including Mastercard International Incorporated ("Mastercard International" and together with Mastercard Incorporated, "Mastercard" or the "Company"), is a technology company in the global payments industry that connects consumers, financial institutions, merchants, governments, digital partners, businesses and other organizations worldwide, enabling them to use electronic forms of payment instead of cash and checks. The Company makes payments easier and more efficient by providing a wide range of payment solutions and services through its family of well-known brands, including Mastercard[®], Maestro[®] and Cirrus[®]. The Company operates a multi-rail network that offers customers one partner to turn to for their domestic and cross-border payment needs. Through its unique and proprietary global payments network, which is referred to as the core network, the Company switches (authorizes, clears and settles) payment transactions and delivers related products and services. Mastercard has additional payment capabilities that include automated clearing house ("ACH") transactions (both batch and real-time account-based payments). The Company also provides integrated value-added offerings such as cyber and intelligence products, information and analytics services, consulting, loyalty and reward programs, processing and open banking. The Company's payment solutions offer customers choice and flexibility and are designed to ensure safety and security for the global payments system.

A typical transaction on the Company's core network involves four participants in addition to the Company: account holder (a person or entity who holds a card or uses another device enabled for payment), issuer (the account holder's financial institution), merchant and acquirer (the merchant's financial institution). The Company does not issue cards, extend credit, determine or receive revenue from interest rates or other fees charged to account holders by issuers, or establish the rates charged by acquirers in connection with merchants' acceptance of the Company's products. In most cases, account holder relationships belong to, and are managed by, the Company's financial institution customers.

Significant Accounting Policies

Consolidation and basis of presentation - The consolidated financial statements include the accounts of Mastercard and its majority-owned and controlled entities, including any variable interest entities ("VIEs") for which the Company is the primary beneficiary. Investments in VIEs for which the Company is not considered the primary beneficiary are not consolidated and are accounted for as equity method or measurement alternative method investments and recorded in other assets on the consolidated balance sheet. At December 31, 2020 and 2019, there were no significant VIEs which required consolidation and the investments were not considered material to the consolidated financial statements. The Company consolidates acquisitions as of the date in which the Company has obtained a controlling financial interest. Intercompany transactions and balances have been eliminated in consolidation. The Company follows accounting principles generally accepted in the United States of America ("GAAP").

Non-controlling interests represent the equity interest not owned by the Company and are recorded for consolidated entities in which the Company owns less than 100% of the interests. Changes in a parent's ownership interest while the parent retains its controlling interest are accounted for as equity transactions, and upon loss of control, retained ownership interests are remeasured at fair value, with any gain or loss recognized in earnings. For 2020, 2019 and 2018, net losses from non-controlling interests were not material and, as a result, amounts are included on the consolidated statement of operations within other income (expense).

Use of estimates - The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions 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 revenue and expenses during the reporting periods. Future events and their effects cannot be predicted with certainty, including the potential impacts and duration of the COVID-19 pandemic, as well as other factors; accordingly, accounting estimates require the exercise of judgment. These financial statements were prepared using information reasonably available as of December 31, 2020 and through the date of this Report. The accounting estimates used in the preparation of the Company's consolidated financial statements may change as new events occur, as more experience is acquired, as additional information is obtained and as the Company's operating environment changes. Actual results may differ from these estimates.

Revenue recognition - Revenue is recognized to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the Company expects to be entitled to in exchange for those goods or services. Revenue is primarily generated from assessing customers based on the dollar volume of activity, or gross dollar volume, on the products that carry the Company's brands, from fees to issuers, acquirers and other stakeholders for providing switching services, as well as from value-added products and services that are typically integrated and sold with the Company's payment offerings.

Volume-based revenue (domestic assessments and cross-border volume fees) is recorded as revenue in the period it is earned, which is primarily based on the related volume generated on the cards. Certain volume-based revenue is based upon information reported by customers. Transaction-based revenue (transaction processing) is primarily based on the number and type of transactions and is recognized as revenue in the same period in which the related transactions occur. Other payment-related products and services are recognized as revenue in the period in which the related services are performed or transactions occur. For services provided to customers where delivery involves the use of a third-party, the Company recognizes revenue on a gross basis if it acts as the principal, controlling the service to the customer and on a net basis if it acts as the agent, arranging for the service to be provided.

Mastercard has business agreements with certain customers that provide for rebates or other support when the customers meet certain volume hurdles as well as other support incentives, which are tied to performance. Rebates and incentives are recorded as a reduction of gross revenue primarily when volume- and transaction-based revenues are recognized over the contractual term. Rebates and incentives are calculated based upon estimated customer performance and the terms of the related business agreements. In addition, Mastercard may make payments to a customer directly related to entering into an agreement, which are generally capitalized and amortized over the life of the agreement on a straight-line basis.

Contract assets include unbilled consideration typically resulting from executed data analytic and consulting services performed for customers in connection with Mastercard's payment network service arrangements. Collection for these services typically occurs over the contractual term. Contract assets are included in prepaid expenses and other current assets and other assets on the consolidated balance sheet.

The Company defers the recognition of revenue when consideration has been received prior to the satisfaction of performance obligations. As these performance obligations are satisfied, revenue is subsequently recognized. Deferred revenue is primarily derived from data analytic and consulting services. Deferred revenue is included in other current liabilities and other liabilities on the consolidated balance sheet.

Business combinations - The Company accounts for business combinations under the acquisition method of accounting. The Company measures the tangible and intangible identifiable assets acquired, liabilities assumed, any non-controlling interest in the acquiree and contingent consideration at fair value as of the acquisition date. Acquisition-related costs are expensed as incurred and are included in general and administrative expenses on the consolidated statement of operations. Any excess purchase price over the fair value of net assets acquired, including identifiable intangible assets, is recorded as goodwill. Measurement period adjustments, if any, to the preliminary estimated fair value of the intangibles assets as of the acquisition date are recorded in goodwill.

Goodwill and other intangible assets - Indefinite-lived intangible assets consist of goodwill, which represents the synergies expected to arise after the acquisition date and the assembled workforce, and customer relationships. Finite-lived intangible assets consist of capitalized software costs, customer relationships and other intangible assets. Intangible assets with finite useful lives are amortized over their estimated useful lives, on a straight-line basis, which range from one to twenty years. Capitalized software includes internal and external costs incurred directly related to the design, development and testing phases of each capitalized software project.

Impairment of assets - Goodwill and indefinite-lived intangible assets are not amortized but tested annually for impairment at the reporting unit level in the fourth quarter, or sooner when circumstances indicate an impairment may exist. The impairment evaluation for goodwill utilizes a qualitative assessment to determine whether it is more likely than not that goodwill is impaired. The qualitative factors may include, but are not limited to, macroeconomic conditions, industry and market conditions, operating environment, financial performance and other relevant events. If it is determined that it is more likely than not that goodwill is impaired, then the Company is required to perform a quantitative goodwill impairment test. If the fair value of a reporting unit exceeds the carrying value, goodwill is not impaired. If the fair value of the reporting unit is less than its carrying value, then goodwill is impaired and the excess of the reporting unit's carrying value over the fair value is recognized as an impairment charge.

The impairment test for indefinite-lived intangible assets consists of a qualitative assessment to evaluate relevant events and circumstances that could affect the significant inputs used to determine the fair value of indefinite-lived intangible assets. If the qualitative assessment indicates that it is more likely than not that indefinite-lived intangible assets are impaired, then a quantitative assessment is required.

Long-lived assets, other than goodwill and indefinite-lived intangible assets, are tested for impairment whenever events or circumstances indicate that their carrying amount may not be recoverable. If the carrying value of the asset cannot be recovered from estimated future cash flows, undiscounted and without interest, the fair value of the asset is calculated using the present value of estimated net future cash flows. If the carrying amount of the asset exceeds its fair value, an impairment is recorded.

Impairment charges, if any, are recorded in general and administrative expenses on the consolidated statement of operations.

Litigation - The Company is a party to certain legal and regulatory proceedings with respect to a variety of matters. The Company evaluates the likelihood of an unfavorable outcome of all legal or regulatory proceedings to which it is a party and accrues a loss contingency when the loss is probable and reasonably estimable. Loss contingencies are recorded in provision for litigation on the consolidated statement of operations. These judgments are subjective based on the status of the legal or regulatory proceedings, the merits of its defenses and consultation with in-house and external legal counsel. Legal costs are expensed as incurred and recorded in general and administrative expenses on the consolidated statement of operations.

Settlement and other risk management - Mastercard's rules guarantee the settlement of many of the transactions between its customers. Settlement exposure is the outstanding settlement risk to customers under Mastercard's rules due to the difference in timing between the payment transaction date and subsequent settlement. While the term and amount of the guarantee are unlimited, the duration of settlement exposure is short term and typically limited to a few days.

The Company also enters into agreements in the ordinary course of business under which the Company agrees to indemnify third parties against damages, losses and expenses incurred in connection with legal and other proceedings arising from relationships or transactions with the Company. As the extent of the Company's obligations under these agreements depends entirely upon the occurrence of future events, the Company's potential future liability under these agreements is not determinable.

The Company accounts for each of its guarantees by recording the guarantee at its fair value at the inception or modification date through earnings.

Income taxes - The Company follows an asset and liability based approach in accounting for income taxes as required under GAAP. Deferred income tax assets and liabilities are recorded to reflect the tax consequences on future years of temporary differences between the financial statement carrying amounts and income tax bases of assets and liabilities. Deferred income taxes are displayed separately as noncurrent assets and liabilities on the consolidated balance sheet. Valuation allowances are provided against assets which are not more likely than not to be realized. The Company recognizes all material tax positions, including uncertain tax positions in which it is more likely than not that the position will be sustained based on its technical merits and if challenged by the relevant taxing authorities. At each balance sheet date, unresolved uncertain tax positions are reassessed to determine whether subsequent developments require a change in the amount of recognized tax benefit. The allowance for uncertain tax positions is recorded in other current and noncurrent liabilities on the consolidated balance sheet. The Company records interest expense related to income tax matters as interest expense on the consolidated statement of operations. The Company includes penalties related to income tax matters in the income tax provision.

Cash and cash equivalents - Cash and cash equivalents include certain investments with daily liquidity and with an original maturity of three months or less from the date of purchase. Cash equivalents are recorded at cost, which approximates fair value.

Restricted cash - The Company classifies cash and cash equivalents as restricted when it is unavailable for withdrawal or use in its general operations. The Company has the following types of restricted cash and restricted cash equivalents which are included in the reconciliation of beginning-of-period and end-of-period amounts shown on the consolidated statement of cash flows:

- Restricted cash for litigation settlement The Company has restricted cash for litigation within a qualified settlement fund related to the settlement agreement for the U.S. merchant class litigation. The funds continue to be restricted for payments until the litigation matter is resolved.
- Restricted security deposits held for customers The Company requires collateral from certain customers for settlement of their transactions. The majority of collateral for settlement is in the form of standby letters of credit and bank guarantees which are not recorded on the consolidated balance sheet. Additionally, the Company holds cash deposits and certificates of deposit from certain customers as collateral for settlement of their transactions, which are recorded as assets on the consolidated balance sheet. These assets are fully offset by corresponding liabilities included on the consolidated balance sheet. These security deposits are typically held for the duration of the agreement with the customers.
- Other restricted cash balances The Company has other restricted cash balances which include contractually restricted deposits, as well as cash balances that are restricted based on the Company's intention with regard to usage. These funds are classified on the consolidated balance sheet within prepaid expenses and other current assets and other assets.

Fair value - The Company measures certain financial assets and liabilities at fair value on a recurring basis by estimating the price that would be received upon the sale of an asset or paid to transfer a liability in an orderly transaction between market participants. The Company classifies these recurring fair value measurements into a three-level hierarchy ("Valuation Hierarchy").

The Valuation Hierarchy is based upon the transparency of inputs to the valuation of an asset or liability as of the measurement date. A financial instrument's categorization within the Valuation Hierarchy is based upon the lowest level of input that is significant to the fair value measurement. The three levels of the Valuation Hierarchy are as follows:

· Level 1 - inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or liabilities in active markets

- Level 2 inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets and liabilities in inactive markets and inputs that are observable for the asset or liability
- Level 3 inputs to the valuation methodology are unobservable and cannot be directly corroborated by observable market data

Certain assets are measured at fair value on a nonrecurring basis. The Company's non-financial assets measured at fair value on a nonrecurring basis include property, equipment and right-of-use assets, goodwill and other intangible assets. These assets are subject to fair value adjustments in certain circumstances, such as when there is evidence of impairment.

The valuation methods for goodwill and other intangible assets acquired in business combinations involve assumptions concerning comparable company multiples, discount rates, growth projections and other assumptions of future business conditions. The Company uses various valuation techniques to determine fair value, primarily discounted cash flows analysis, relief-from-royalty, and multi-period excess earnings for estimating the fair value of its intangible assets. As the assumptions employed to measure these assets are based on management's judgment using internal and external data, these fair value determinations are classified in Level 3 of the Valuation Hierarchy.

Contingent consideration - Certain business combinations involve the potential for future payment of consideration that is contingent upon the achievement of performance milestones. These liabilities are classified within Level 3 of the Valuation Hierarchy as the inputs used to measure fair value are unobservable and require management's judgment. The fair value of the contingent consideration at the acquisition date and subsequent periods is determined utilizing an income approach based on a Monte Carlo technique and is recorded in other current liabilities and other liabilities on the consolidated balance sheet. Changes to projected performance milestones of the acquired businesses could result in a higher or lower contingent consideration liability. The changes in fair value as a result of updated assumptions are recorded in general and administrative expenses on the consolidated statement of operations.

Investment securities - The Company classifies investments as available-for-sale or held-to-maturity at the date of acquisition.

- Available-for-sale debt securities:
 - Investments in debt securities that are available to meet the Company's current operational needs are classified as current assets and the securities that are not available for current operational needs are classified as non-current assets on the consolidated balance sheet.

The debt securities are carried at fair value, with unrealized gains and losses, net of tax, recorded as a separate component of accumulated other comprehensive income (loss) on the consolidated statement of comprehensive income. Net realized gains and losses on debt securities are recognized in investment income on the consolidated statement of operations. The specific identification method is used to determine realized gains and losses.

The Company evaluates its debt securities for impairment on an ongoing basis. When there has been a decline in fair value of a debt security below the amortized cost basis, the Company recognizes an impairment if: (1) it has the intent to sell the security; (2) it is more likely than not that it will be required to sell the security before recovery of the amortized cost basis; or (3) it does not expect to recover the entire amortized cost basis of the security. The credit loss component of the impairment is recognized as an allowance and recorded in other income (expense), net on the consolidated statement of operations while the non-credit related loss remains in accumulated other comprehensive income (loss) until realized from a sale or subsequent impairment.

- Held-to-maturity securities:
 - Time deposits The Company classifies time deposits with original maturities greater than three months as held-to-maturity. Held-to-maturity securities that mature within one year are classified as current assets within investments on the consolidated balance sheet while held-to-maturity securities with maturities of greater than one year are classified as non-current assets. Time deposits are carried at amortized cost on the consolidated balance sheet and are intended to be held until maturity.

Equity investments - The Company holds equity securities of publicly traded and privately held companies.

- Marketable equity securities Marketable equity securities are strategic investments in publicly traded companies and are measured at fair value using quoted prices in
 their respective active markets with changes recorded through gain (losses) on equity investments, net on the consolidated statement of operations. Securities that are
 not for use in current operations are classified in other assets on the consolidated balance sheet.
- Nonmarketable equity investments The Company's nonmarketable equity investments, which are reported in other assets on the consolidated balance sheet, include investments in privately held companies without readily determinable market values. The Company uses discounted cash flows and market assumptions to estimate the fair value of its nonmarketable equity investments when certain events or circumstances indicate that impairment may exist. The Company's nonmarketable equity investments are accounted for under the equity method or measurement alternative method.
 - Equity method The Company accounts for investments in common stock or in-substance common stock under the equity method of accounting when it has the ability to exercise significant influence over the investee, generally when it holds between 20% and 50% ownership in the entity. The excess of the cost over the underlying net equity of investments accounted for under the equity method is allocated to identifiable tangible and intangible assets and liabilities based on fair values at the date of acquisition. The amortization of the excess of the cost over the underlying net equity of investments and Mastercard's share of net earnings or losses of entities accounted for under the equity method of accounting is included in other income (expense), net on the consolidated statement of operations. In addition, investments in flow-through entities such as limited partnerships and limited liability companies are also accounted for under the equity method when the Company has the ability to exercise significant influence over the investee, generally when the investment ownership percentage is equal to or greater than 5% of the outstanding ownership interest. The Company's share of net earnings or losses for these investments are included in gains (losses) on equity investments, net on the consolidated statement of operations.
 - Measurement alternative method The Company accounts for investments in common stock or in-substance common stock under the measurement alternative method of accounting when it does not exercise significant influence, generally when it holds less than 20% ownership in the entity or when the interest in a limited partnership or limited liability company is less than 5% and the Company has no significant influence over the operation of the investee. Investments in companies that Mastercard does not control, but that are not in the form of common stock or in-substance common stock, are also accounted for under the measurement alternative method of accounting. Measurement alternative investments are measured at cost, less any impairment and adjusted for changes resulting from observable price changes in orderly transactions for identical or similar investments of the same issuer. Fair value adjustments, as well as impairments, are included in gain (losses) on equity investments, net on the consolidated statement of operations.

Derivative and hedging instruments - The Company's derivative financial instruments are recorded as either assets or liabilities on the balance sheet and measured at fair value. The Company's foreign exchange and interest rate derivative contracts are included in Level 2 of the Valuation Hierarchy as the fair value of the contracts are based on inputs, which are observable based on broker quotes for the same or similar instruments. The Company does not enter into derivative contracts for trading or speculative purposes. For derivative contracts that are not designated as hedging instruments, realized and unrealized gains and losses from the change in fair value of the contracts are recognized in current earnings.

The Company's derivatives that are designated as hedging instruments are required to meet established accounting criteria. In addition, an effectiveness assessment is required to demonstrate that the derivative is expected to be highly effective at offsetting changes in fair value or cash flows of the underlying exposure both at inception of the hedging relationship and on an ongoing basis. The method of assessing hedge effectiveness and measuring hedge results is formally documented at hedge inception and assessed at least quarterly throughout the designated hedge period. For cash flow hedges, the fair value adjustments are recorded, net of tax, in other comprehensive income (loss) on the consolidated statement of comprehensive income. Any gains and losses deferred in accumulated other comprehensive income (loss) are subsequently reclassified to the corresponding line item on the consolidated statement of operations when the underlying hedged transactions impact earnings. For hedging instruments that are no longer deemed highly effective, hedge accounting is discontinued prospectively, and any gains and losses remaining in accumulated other comprehensive income (loss) are reclassified to earnings when the underlying forecasted transaction occurs. If it is probable that the forecasted transaction will no longer occur, the associated gains or losses in accumulated other comprehensive income (loss) are reclassified to the corresponding line item on the consolidated statement of operations gains and losses remaining in accumulated other comprehensive income (loss) are reclassified to the corresponding line item on the underlying forecasted transaction occurs. If it is probable that the forecasted transaction will no longer occur, the associated gains or losses in accumulated other comprehensive income (loss) are reclassified to the corresponding line item on the consolidated statement of operations in current earnings.

The Company has numerous investments in its foreign subsidiaries. The net assets of these subsidiaries are exposed to volatility in foreign currency exchange rates. The Company may use foreign currency denominated debt and/or derivative instruments to hedge a portion of its net investment in foreign operations against adverse movements in exchange rates. The effective portion of the foreign currency gains and losses related to the hedging instruments are reported in accumulated other comprehensive income (loss) on the consolidated balance sheet as a cumulative translation adjustment component of equity. Amounts excluded from

effectiveness testing of net investment hedges are recognized in earnings over the life of the hedging instrument. The Company evaluates the effectiveness of the net investment hedge each quarter.

Settlement due from/due to customers - The Company operates systems for clearing and settling payment transactions among customers. Net settlements are generally cleared daily among customers through settlement cash accounts by wire transfer or other bank clearing means. However, some transactions may not settle until subsequent business days, resulting in amounts due from and due to customers.

Property, equipment and right-of-use assets - Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation and amortization is computed using the straight-line method over the estimated useful lives of the assets. Depreciation of leasehold improvements and amortization of finance leases is included in depreciation and amortization expense on the consolidated statement of operations. Operating lease amortization expense is included in general and administrative expenses on the consolidated statement of operations.

The useful lives of the Company's assets are as follows:

Asset Category	Estimated Useful Life				
Buildings	30 years				
Building equipment	10 - 15 years				
Furniture and fixtures and equipment	3 - 5 years				
Leasehold improvements	Shorter of life of improvement or lease terr				
Right-of-use assets	Shorter of life of the asset or lease term				

The Company determines if a contract is, or contains, a lease at contract inception. The Company's right-of-use ("ROU") assets are primarily related to operating leases for office space, automobiles and other equipment. Leases are included in property, equipment and right-of-use assets, other current liabilities and other liabilities on the consolidated balance sheet.

ROU assets represent the right to use an underlying asset for the lease term and lease liabilities represent the obligation to make lease payments arising from the lease. ROU assets and lease liabilities are recognized at the commencement date based on the present value of lease payments over the lease term. In addition, ROU assets include initial direct costs incurred by the lessee as well as any lease payments made at or before the commencement date, and exclude lease incentives. As most of the Company's leases do not provide an implicit rate, the Company uses its incremental borrowing rate based on the information available at the commencement date in determining the present value of lease payments. The incremental borrowing rate is determined by using the rate of interest that the Company would pay to borrow on a collateralized basis an amount equal to the lease payments for a similar term and in a similar economic environment. Lease terms include options to extend or terminate the lease when it is reasonably certain that the Company will exercise that option. Leases with a term of one year or less are excluded from ROU assets and liabilities.

The Company excludes variable lease payments in measuring ROU assets and lease liabilities, other than those that depend on an index, a rate or are in-substance fixed payments. Lease and nonlease components are generally accounted for separately. When available, consideration is allocated to the separate lease and nonlease components in a lease contract on a relative standalone price basis using observable standalone prices.

Pension and other postretirement plans - The Company recognizes the funded status of its single-employer defined benefit pension plans and postretirement plans as assets or liabilities on its consolidated balance sheet and recognizes changes in the funded status in the year in which the changes occur through accumulated other comprehensive income (loss). The funded status is measured as the difference between the fair value of plan assets and the projected benefit obligation at December 31, the measurement date. Overfunded plans, if any, are aggregated and recorded in other assets, while underfunded plans are aggregated and recorded as accrued expenses and other liabilities on the consolidated balance sheet.

Net periodic pension and postretirement benefit cost/(income), excluding the service cost component, is recognized in other income (expense) on the consolidated statement of operations. These costs include interest cost, expected return on plan assets, amortization of prior service costs or credits and gains or losses previously recognized as a component of accumulated other comprehensive income (loss). The service cost component is recognized in general and administrative expenses on the consolidated statement of operations.

Defined contribution plans - The Company's contributions to defined contribution plans are recorded as employees render service to the Company. The charge is recorded in general and administrative expenses on the consolidated statement of operations.

Advertising and marketing - Expenses incurred to promote Mastercard's brand, products and services are recognized in advertising and marketing on the consolidated statement of operations. The timing of recognition is dependent on the type of advertising or marketing expense.

Foreign currency remeasurement and translation - Monetary assets and liabilities are remeasured to functional currencies using current exchange rates in effect at the balance sheet date. Non-monetary assets and liabilities are recorded at historical exchange rates. Revenue and expense accounts are remeasured at the weighted-average exchange rate for the period. Resulting exchange gains and losses related to remeasurement are included in general and administrative expenses on the consolidated statement of operations.

Where a non-U.S. currency is the functional currency, translation from that functional currency to U.S. dollars is performed for balance sheet accounts using current exchange rates in effect at the balance sheet date and for revenue and expense accounts using a weighted-average exchange rate for the period. Resulting translation adjustments are reported as a component of accumulated other comprehensive income (loss).

Treasury stock - The Company records the repurchase of shares of its common stock at cost on the trade date of the transaction. These shares are considered treasury stock, which is a reduction to stockholders' equity. Treasury stock is included in authorized and issued shares but excluded from outstanding shares.

Share-based payments - The Company measures share-based compensation expense at the grant date, based on the estimated fair value of the award and uses the straightline method of attribution, net of estimated forfeitures, for expensing awards over the requisite employee service period. The Company estimates the fair value of its nonqualified stock option awards ("Options") using a Black-Scholes valuation model. The fair value of restricted stock units ("RSUs") is determined and fixed on the grant date based on the Company's stock price, adjusted for the exclusion of dividend equivalents. The Monte Carlo simulation valuation model is used to determine the grant date fair value of performance stock units ("PSUs") granted. All share-based compensation expenses are recorded in general and administrative expenses on the consolidated statement of operations.

Redeemable non-controlling interests - The Company's business combinations may include provisions allowing non-controlling equity owners the ability to require the Company to purchase additional interests in the subsidiary at their discretion. The interests are initially recorded at fair value and in subsequent reporting periods are accreted or adjusted to the estimated redemption value. The adjustments to the redemption value are recorded to retained earnings or additional paid-in capital on the consolidated balance sheet. The redeemable non-controlling interests are considered temporary and reported outside of permanent equity on the consolidated balance sheet at the greater of the carrying amount adjusted for the non-controlling interest's share of net income (loss) or its redemption value.

Earnings per share - The Company calculates basic earnings per share ("EPS") by dividing net income by the weighted-average number of common shares outstanding during the year. Diluted EPS is calculated by dividing net income by the weighted-average number of common shares outstanding during the year, adjusted for the potentially dilutive effect of stock options and unvested stock units using the treasury stock method. The Company may be required to calculate EPS using the two-class method as a result of its redeemable non-controlling interests. If redemption value exceeds the fair value of the redeemable non-controlling interests, the excess would be a reduction to net income for the EPS calculation.

Accounting pronouncements not yet adopted

Simplifying the accounting for income taxes - In December 2019, the FASB issued accounting guidance to simplify the accounting for income taxes. This guidance includes the removal of certain exceptions to the general income tax accounting principles and provides clarity and simplification to other areas of income tax accounting by amending the existing guidance. The guidance is effective for periods beginning after December 15, 2020. The Company will adopt this guidance effective January 1, 2021 and does not expect the impacts to be material.

Reference Rate Reform - In March 2020, the FASB issued accounting guidance to provide temporary optional expedients and exceptions to the current contract modifications and hedge accounting guidance in light of the expected market transition from LIBOR to alternative rates. The new guidance provides optional expedients and exceptions to transactions affected by reference rate reform if certain criteria are met. The transactions primarily include (1) contract modifications, (2) hedging relationships, and (3) sale or transfer of debt securities classified as held-to-maturity. The amendments were effective immediately upon issuance of the update. Companies may elect to adopt the amendments prospectively to transactions existing as of or entered from the date of adoption through December 31, 2022. The Company does not expect the impacts to be material.

Note 2. Acquisitions

In 2020 and 2019, the Company acquired several businesses for total consideration of \$1.1 billion and \$1.5 billion, respectively, representing both cash and contingent consideration. There were no acquisitions in 2018. These acquisitions align with the Company's strategy to grow, diversify and build the Company's business. Refer to Note 1 (Summary of Significant Accounting Policies) for the valuation techniques Mastercard utilizes to fair value the respective components of business combinations and contingent consideration. The residual value allocated to goodwill is primarily attributable to the synergies expected to arise after the acquisition date and a majority of the goodwill is not expected to be deductible for local tax purposes.

In 2020, the Company finalized the purchase accounting for businesses acquired during 2019 and \$185 million of the businesses acquired in 2020. The Company is evaluating and finalizing the purchase accounting for the remainder of the businesses acquired during 2020. The preliminary estimated and final fair values of the purchase price allocations in aggregate, as of the acquisition dates, are noted below for the years ended December 31.

	2020		2019
	 (in m	illions)	
Assets:			
Cash and cash equivalents	\$ 6	\$	54
Other current assets	14		143
Other intangible assets	237		395
Goodwill	844		1,076
Other assets	11		48
Total assets	 1,112		1,716
Liabilities:			
Other current liabilities	15		121
Deferred income taxes	23		52
Other liabilities	8		32
Total liabilities	 46		205
Net assets acquired	\$ 1,066	\$	1,511

The following table summarizes the identified intangible assets acquired during the years ended December 31:

	2	020	2	2019	2020	2019
		Acquisition D	ate Fair Val	ue	Weighted-Ave	rage Useful Life
		(in m	illions)		(in y	ears)
Developed technologies	\$	122	\$	199	6.3	7.7
Customer relationships		114		178	12.0	12.6
Other		1		18	1.0	5.0
Other intangible assets	\$	237	\$	395	9.0	9.7

Pro forma information related to the acquisitions was not included because the impact on the Company's consolidated results of operations was not considered to be material.

Among the businesses acquired in 2020, the largest acquisition relates to Finicity Corporation ("Finicity"), an open-banking provider, headquartered in Salt Lake City, Utah. On November 18, 2020, Mastercard acquired 100% equity interest in Finicity for cash consideration of \$809 million. In addition, the Finicity sellers have the potential to earn contingent consideration of up to \$160 million if certain revenue targets are met in 2021. As of the acquisition date, the fair value of the contingent consideration was \$71 million. The businesses acquired in 2019 were not individually significant to Mastercard.

Pending Acquisition

In August 2019, Mastercard entered into a definitive agreement to acquire the majority of the Corporate Services business of Nets Denmark A/S, for €2.85 billion (approximately \$3.5 billion as of December 31, 2020) after adjusting for cash and certain other

liabilities at closing. The pending acquisition primarily comprises the clearing and instant payment services, and e-billing solutions of Nets Denmark A/S's Corporate Services business. The Company has secured conditional approval from the European Commission and, subject to other closing conditions, anticipates completing the acquisition in the first quarter of 2021, or shortly thereafter.

Note 3. Revenue

Mastercard's core network involves four participants in addition to the Company: account holders (a person or entity who holds a card or uses another device enabled for payment), issuers (the account holders' financial institutions), merchants and acquirers (the merchants' financial institutions). Revenue from contracts with customers is recognized when services are performed in an amount that reflects the consideration to which the Company expects to be entitled to in exchange for those services. Revenue recognized from domestic assessments, cross-border volume fees and transaction processing are derived from Mastercard's payment network services. Revenue is primarily generated by charging fees to issuers, acquirers and other stakeholders for providing switching services, as well as by assessing customers based primarily on the dollar volume of activity, or gross dollar volume, on the products that carry the Company's brands. Revenue is generally derived from information accumulated by Mastercard's systems or reported by customers. In addition, the Company generates other revenues from value-added products and services that are typically integrated and sold with the Company's payment offerings and are recognized as revenue in the period in which the related transactions occur or services are performed.

The price structure for Mastercard's products and services is dependent on the nature of volumes, types of transactions and type of products and services offered to customers. Net revenue can be impacted by the following:

- domestic or cross-border transactions
- geographic region or country in which the transaction occurs
- volumes/transactions subject to tiered rates
- processed or not processed by the Company
- amount of usage of the Company's other products or services
- amount of rebates and incentives provided to customers

The Company classifies its net revenue into the following five categories:

Domestic assessments are fees charged to issuers and acquirers based primarily on the dollar volume of activity on cards and other devices that carry the Company's brands where the merchant country and the country of issuance are the same. Revenue from domestic assessments is recorded as revenue in the period it is earned, which is when the related volume is generated on the cards or other devices that carry the Company's brands.

Cross-border volume fees are charged to issuers and acquirers based primarily on the dollar volume of activity on cards and other devices that carry the Company's brands where the merchant country and the country of issuance are different. Revenue from cross-border volume is recorded as revenue in the period it is earned, which is when the related volume is generated on the cards or other devices that carry the Company's brands.

Transaction processing revenue is recognized for both domestic and cross-border transactions in the period in which the related transactions occur. Transaction processing includes the following:

- Switched transaction revenue is generated from the following products and services:
 - Authorization is the process by which a transaction is routed to the issuer for approval. In certain circumstances, such as when the issuer's systems are unavailable or cannot be contacted, Mastercard or others approve such transactions on behalf of the issuer in accordance with either the issuer's instructions or applicable rules (also known as "stand-in").
 - Clearing is the determination and exchange of financial transaction information between issuers and acquirers after a transaction has been successfully conducted at the point of interaction. Transactions are cleared among customers through Mastercard's central and regional processing systems.
 - Settlement is facilitating the exchange of funds between parties.
- Connectivity fees are charged to issuers, acquirers and other financial institutions for network access, equipment and the transmission of authorization and settlement
 messages. These fees are based on the size of the data being transmitted and the number of connections to the Company's network.
- Other processing fees include issuer and acquirer processing solutions; payment gateways for e-commerce merchants; mobile gateways for mobile-initiated transactions; and safety and security.

Other revenues consist of value-added products and services that are typically sold with the Company's payment service offerings and are recognized in the period in which the related services are performed or transactions occur. Other revenues include the following:

- Data analytics and consulting fees.
- Cyber and intelligence fees are for products and services offered to prevent, detect and respond to fraud and to ensure the safety of transactions made primarily on Mastercard products.
- Loyalty and rewards solutions fees are charged to issuers for benefits provided directly to consumers with Mastercard-branded cards, such as access to a global airline lounge network, global and local concierge services, individual insurance coverages, emergency card replacement, emergency cash advance services and a 24-hour cardholder service center. Loyalty and reward solution fees also include rewards campaigns and management services.
- Program management services provided to prepaid card issuers consist of foreign exchange margin, commissions, load fees and ATM withdrawal fees paid by cardholders
 on the sale and encashment of prepaid cards.
- Batch and real-time account-based payment services relating to ACH transactions and other ACH related services.
- Other payment-related products and services and platforms, including account and transaction enhancement services, open banking solutions, rules compliance and publications.

Rebates and incentives (contra-revenue) are provided to customers that meet certain volume targets and can be in the form of a rebate or other support incentives, which are tied to performance. Rebates and incentives are recorded as a reduction of gross revenue primarily when volume- and transaction-based revenues are recognized over the contractual term. In addition, Mastercard may make incentive payments to a customer directly related to entering into an agreement, which are generally capitalized and amortized over the life of the agreement on a straight-line basis.

The Company's disaggregated net revenue by source and geographic region were as follows for the years ended December 31:

	20	020		2019	2018
			(ir	n millions)	
Revenue by source:					
Domestic assessments	\$	6,656	\$	6,781	\$ 6,138
Cross-border volume fees		3,512		5,606	4,954
Transaction processing		8,731		8,469	7,391
Other revenues		4,717		4,124	3,348
Gross revenue		23,616		24,980	21,831
Rebates and incentives (contra-revenue)		(8,315)		(8,097)	(6,881)
Net revenue	\$	15,301	\$	16,883	\$ 14,950
Net revenue by geographic region:					
North American Markets	\$	5,424	\$	5,843	\$ 5,312
International Markets		9,701		10,869	9,514
Other ¹		176		171	124
Net revenue	\$	15,301	\$	16,883	\$ 14,950

Includes revenues managed by corporate functions.

Receivables from contracts with customers of \$2.5 billion and \$2.3 billion as of December 31, 2020 and 2019, respectively, are recorded within accounts receivable on the consolidated balance sheet. The Company's customers are generally billed weekly, however, the frequency is dependent upon the nature of the performance obligation and the underlying contractual terms. The Company does not typically offer extended payment terms to customers.

Contract assets are included in prepaid expenses and other current assets and other assets on the consolidated balance sheet at December 31, 2020 in the amounts of \$59 million and \$245 million, respectively. The comparable amounts included in prepaid expenses and other current assets and other assets at December 31, 2019 were \$48 million and \$152 million, respectively.

Deferred revenue is included in other current liabilities and other liabilities on the consolidated balance sheet at December 31, 2020 in the amounts of \$355 million and \$143 million, respectively. The comparable amounts included in other current liabilities and

other liabilities at December 31, 2019 were \$238 million and \$106 million, respectively. In 2020, 2019 and 2018 revenue recognized from the satisfaction of such performance obligations was \$1.1 billion, \$994 million and \$904 million, respectively.

The Company's remaining performance periods for its contracts with customers for its payment network services are typically long-term in nature (generally up to 10 years). As a payment network service provider, the Company provides its customers with continuous access to its global payments network and stands ready to provide transaction processing and related services over the contractual term. Consideration is variable as the Company generates volume- and transaction-based revenues from assessing its customers' current period activity. The Company has elected the optional exemption to not disclose the remaining performance obligations related to its payment network services. The Company also earns revenues primarily from other value-added services comprised of both batch and real-time account-based payment services, consulting fees, gateway services, processing, loyalty programs and other payment-related products and services. At December 31, 2020, the estimated aggregate consideration allocated to unsatisfied performance obligations for these other value-added services is \$1.3 billion, which is expected to be recognized through 2023. The estimated remaining performance obligations and are not expected to be material to any future annual period.

Note 4. Earnings Per Share

The components of basic and diluted EPS for common shares for each of the years ended December 31 were as follows:

	2020		2019		2018
	 (in mi	llions, ex	cept per sha	re data)	
Numerator					
Net income	\$ 6,411	\$	8,118	\$	5,859
Denominator					
Basic weighted-average shares outstanding	1,002		1,017		1,041
Dilutive stock options and stock units	4		5		6
Diluted weighted-average shares outstanding ¹	1,006		1,022		1,047
Earnings per Share					
Basic	\$ 6.40	\$	7.98	\$	5.63
Diluted	\$ 6.37	\$	7.94	\$	5.60

Note: Table may not sum due to rounding.

For the years presented, the calculation of diluted EPS excluded a minimal amount of anti-dilutive share-based payment awards.

Note 5. Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents

The following table provides a reconciliation of cash, cash equivalents, restricted cash and restricted cash equivalents reported on the consolidated balance sheet that total to the amounts shown on the consolidated statement of cash flows for the years ended December 31:

	2020		2019
	 (in m	illions)	
Cash and cash equivalents	\$ 10,113	\$	6,988
Restricted cash and restricted cash equivalents			
Restricted cash for litigation settlement	586		584
Restricted security deposits held for customers	1,696		1,370
Prepaid expenses and other current assets	24		27
Cash, cash equivalents, restricted cash and restricted cash equivalents	\$ 12,419	\$	8,969

Note 6. Supplemental Cash Flows

The following table includes supplemental cash flow disclosures for each of the years ended December 31:

	20	20	2019	2018
			(in millions)	
Cash paid for income taxes, net of refunds	\$	1,349	\$ 1,644	\$ 1,790
Cash paid for interest		311	199	153
Cash paid for legal settlements		149	668	260
Non-cash investing and financing activities				
Dividends declared but not yet paid		439	403	340
Accrued property, equipment and right-of-use assets		154	468	10
Fair value of assets acquired, net of cash acquired		1,106	1,662	_
Fair value of liabilities assumed related to acquisitions		46	205	_

Note 7. Investments

The Company's investments on the consolidated balance sheet include both available-for-sale and held-to-maturity securities (see Investments section below). The Company classifies its investments in equity securities of publicly traded and privately held companies within other assets on the consolidated balance sheet (see Equity Investments section below).

Investments

Investments on the consolidated balance sheet consisted of the following at December 31:

	2020	2019
	(in m	illions)
Available-for-sale securities	\$ 321	\$ 591
Held-to-maturity securities	162	97
Total investments	\$ 483	\$ 688

Available-for-Sale Securities

The major classes of the Company's available-for-sale investment securities and their respective amortized cost basis and fair values were as follows:

	December 31, 2020							December 31, 2019								
	Amor	tized Cost		Gross alized Gain		Gross alized Loss	Fa	air Value	Am	ortized Cost	Un	Gross realized Gain		Gross alized Loss	Fai	r Value
								(in m	illion	s)						
Municipal securities	\$	10	\$	_	\$	_	\$	10	\$	15	\$	_	\$	_	\$	15
Government and agency securities		64		_		_		64		108		_		_		108
Corporate securities		246		1		_		247		381		1		_		382
Asset-backed securities		_		_		_		_		85		1		_		86
Total	\$	320	\$	1	\$	_	\$	321	\$	589	\$	2	\$	_	\$	591

The Company's available-for-sale investment securities held at December 31, 2020 and 2019, primarily carried a credit rating of A- or better with unrealized gains and losses recorded as a separate component of other comprehensive income (loss) on the consolidated statement of comprehensive income. The municipal securities are comprised of state tax-exempt bonds and are diversified across states and sectors. Government and agency securities include U.S. government bonds, U.S. government sponsored agency bonds and foreign government bonds. Corporate securities are comprised of commercial paper and corporate bonds. The asset-backed securities are investments in bonds which are collateralized primarily by automobile loan receivables.

The maturity distribution based on the contractual terms of the Company's investment securities at December 31, 2020 was as follows:

	Available	e-For-Sale	
	 Amortized Cost	F	air Value
	 (in m	llions)	
	\$ 115	\$	115
rough 5 years	205		206
	\$ 320	\$	321

Investment income on the consolidated statement of operations primarily consists of interest income generated from cash, cash equivalents, time deposits, and realized gains and losses on the Company's debt securities. The realized gains and losses from the sale of available-for-sale securities for 2020, 2019 and 2018 were not significant.

Held-to-Maturity Securities

The Company classifies time deposits with maturities greater than three months but less than one year as held-to-maturity. Time deposits are carried at amortized cost on the consolidated balance sheet and are intended to be held until maturity. The cost of these securities approximates fair value.

Equity Investments

Included in other assets on the consolidated balance sheet are equity investments with readily determinable fair values ("Marketable securities") and equity investments without readily determinable fair values ("Nonmarketable securities"). Marketable securities are publicly traded companies and are measured using unadjusted quoted prices in their respective active markets. Nonmarketable securities that do not qualify for equity method accounting are measured at cost, less any impairment and adjusted for changes resulting from observable price changes in orderly transactions for the identical or similar investments of the same issuer ("measurement alternative").

The following table is a summary of the activity related to the Company's equity investments:

	Balance at December 31, 2019		urchases (Sales), net	Changes in Fair Value ¹	Other ²	alance at nber 31, 2020
				(in millions)		
Marketable securities	\$ 479	\$	1	\$ (5)	\$ 1	\$ 476
Nonmarketable securities	435		204	35	22	696
Total equity investments	\$ 914	\$	205	\$ 30	\$ 23	\$ 1,172

¹ Recorded in gains (losses) on equity investments, net on the consolidated statement of operations

² Includes translational impact of currency

At December 31, 2020, the total carrying value of Nonmarketable securities included \$157 million of measurement alternative investments and \$539 million of equity method investments. At December 31, 2019, the total carrying value of Nonmarketable securities included \$317 million of measurement alternative investments and \$118 million of equity method investments. Cumulative impairments and downward fair value adjustments on measurement alternative investments were \$14 million and cumulative upward fair value adjustments were \$31, 2020.

Note 8. Fair Value Measurements

The Company classifies its fair value measurements of financial instruments into a three-level hierarchy within the Valuation Hierarchy. Financial instruments are categorized for fair value measurement purposes as recurring or non-recurring in nature. There were no transfers made among the three levels in the Valuation Hierarchy for 2020 and 2019.

Financial Instruments - Recurring Measurements

The distribution of the Company's financial instruments measured at fair value on a recurring basis within the Valuation Hierarchy were as follows:

			December	· 31,	2020			December 31, 2019									
	ir N	oted Prices n Active Markets Level 1)	Significant Other Dbservable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)	т	otal		uoted Prices in Active Markets (Level 1)		Significant Other Observable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)		т	otal	
Assets						 	(in m	illio	ns)								
Investment securities available for sale ¹ :																	
Municipal securities	\$	_	\$ 10	\$	_	\$	10	\$	_	\$	15	\$	_		\$	15	
Government and agency securities		26	38		_		64		66		42		_			108	
Corporate securities		_	247		_		247		_		382		_			382	
Asset-backed securities		_	_		_		_		_		86		_			86	
Derivative instruments ² :																	
Foreign exchange contracts		_	19		_		19		_		12		_			12	
Interest rate contracts		_	_		_		_		_		14		-			14	
Marketable securities ³ :																	
Equity securities		476	_		_		476		479		_		_			479	
Deferred compensation plan ⁴ :																	
Deferred compensation assets		78	_		-		78		67		_		-			67	
Liabilities																	
Derivative instruments ² :																	
Foreign exchange derivative liabilities	\$	_	\$ (28)	\$	-	\$	(28)	\$	-	\$	(32)	\$	-		\$	(32)	
Deferred compensation plan ⁵ :																	
Deferred compensation liabilities		(81)	_		_		(81)		(67)		_		_			(67)	

¹ The Company's U.S. government securities are classified within Level 1 of the Valuation Hierarchy as the fair values are based on unadjusted quoted prices for identical assets in active markets. The fair value of the Company's available-for-sale municipal securities, government and agency securities, corporate securities and asset-backed securities are based on observable inputs such as quoted prices, benchmark yields and issuer spreads for similar assets in active markets and are therefore included in Level 2 of the Valuation Hierarchy.

² The Company's foreign exchange and interest rate derivative asset and liability contracts have been classified within Level 2 of the Valuation Hierarchy as the fair value is based on observable inputs such as broker quotes relating to foreign currency exchange rates for similar derivative instruments. See Note 23 (Derivative and Hedging Instruments) for further details.

³ The Company's Marketable securities are publicly held and classified within Level 1 of the Valuation Hierarchy as the fair values are based on unadjusted quoted prices in their respective active markets.

⁴ The Company has a nonqualified deferred compensation plan where assets are invested primarily in mutual funds held in a rabbi trust, which is restricted for payments to participants of the plan. The Company has elected to use the fair value option for these mutual funds, which are measured using quoted prices of identical instruments in active markets and are included in prepaid expenses and other current assets on the consolidated balance sheet.

⁵ The deferred compensation liabilities are measured at fair value based on the quoted prices of identical instruments to the investment vehicles selected by the participants. These are included in other liabilities on the consolidated balance sheet.

Financial Instruments - Non-Recurring Measurements

Nonmarketable Securities

The Company's Nonmarketable securities are recorded at fair value on a non-recurring basis in periods after initial recognition under the equity method or measurement alternative method. Nonmarketable securities are classified within Level 3 of the Valuation Hierarchy due to the absence of quoted market prices, the inherent lack of liquidity and unobservable inputs used to measure fair value that require management's judgment. The Company uses discounted cash flows and market assumptions to estimate the fair value of its Nonmarketable securities when certain events or circumstances indicate that impairment may exist. See Note 7 (Investments) for further details.

Debt

The Company estimates the fair value of its long-term debt based on market quotes. These debt instruments are not traded in active markets and are classified as Level 2 of the Valuation Hierarchy. At December 31, 2020, the carrying value and fair value of total long-term debt (including the current portion) was \$12.7 billion and \$14.8 billion, respectively. At December 31, 2019, the carrying value and fair value of long-term debt (including the current portion) was \$8.5 billion and \$9.2 billion, respectively. See Note 15 (Debt) for further details.

Other Financial Instruments

Certain financial instruments are carried on the consolidated balance sheet at cost or amortized cost basis, which approximates fair value due to their short-term, highly liquid nature. These instruments include cash and cash equivalents, restricted cash, time deposits, accounts receivable, settlement due from customers, restricted security deposits held for customers, accounts payable, settlement due to customers and other accrued liabilities.

Note 9. Prepaid Expenses and Other Assets

Prepaid expenses and other current assets consisted of the following at December 31:

	2020	2019
	(in n	nillions)
Customer and merchant incentives	\$ 1,086	\$ 872
Prepaid income taxes	78	105
Other	719	786
Total prepaid expenses and other current assets	\$ 1,883	\$ 1,763

Other assets consisted of the following at December 31:

	2020	2019
	 (in m	illions)
Customer and merchant incentives	\$ 3,220	\$ 2,838
Equity investments	1,172	914
Income taxes receivable	553	460
Other	420	313
Total other assets	\$ 5,365	\$ 4,525

Customer and merchant incentives represent payments made to customers and merchants under business agreements. Costs directly related to entering into such an agreement are generally deferred and amortized over the life of the agreement.

See Note 7 (Investments) for further information on the Company's equity investments.

Note 10. Property, Equipment and Right-of-Use Assets

Property, equipment and right-of-use assets consisted of the following at December 31:

	2020		2019
	(in mi	illions)	
Building, building equipment and land	\$ 522	\$	505
Equipment	1,321		1,218
Furniture and fixtures	99		92
Leasehold improvements	380		303
Operating lease right-of-use assets	970		810
Property, equipment and right-of-use assets	3,292		2,928
Less: Accumulated depreciation and amortization	(1,390)		(1,100)
Property, equipment and right-of-use assets, net	\$ 1,902	\$	1,828

Depreciation and amortization expense for the above property, equipment and right-of-use assets was \$400 million, \$336 million and \$209 million for 2020, 2019 and 2018, respectively.

Operating lease ROU assets and operating lease liabilities are recorded on the consolidated balance sheet as follows at December 31:

	2020		2019
		(in millions)	
Balance sheet location			
Property, equipment and right-of-use assets, net	\$	748 \$	711
Other current liabilities		125	106
Other liabilities		726	656

Operating lease amortization expense for 2020 and 2019 was \$123 million and \$99 million, respectively. As of December 31, 2020 and 2019, the weighted-average remaining lease term of operating leases was 9.1 years and 9.5 years and the weighted-average discount rate for operating leases was 2.7% and 2.9%, respectively.

The following table summarizes the maturity of the Company's operating lease liabilities at December 31, 2020 based on lease term:

	0	perating Leases
		(in millions)
2021	\$	137
2022		130
2023		108
2024		95
2025		72
Thereafter		383
Total operating lease payments		925
Less: Interest		(74)
Present value of operating lease liabilities	\$	851

Prior to adoption of the lease accounting standard in 2019, consolidated rental expense for the Company's leased office space was \$94 million for 2018. Consolidated lease expense for automobiles, computer equipment and office equipment was \$20 million for 2018, respectively.

Note 11. Goodwill

The changes in the carrying amount of goodwill for the years ended December 31 were as follows:

		2020	2019
	_	(in m	nillions)
Beginning balance	\$	4,021	\$ 2,904
Additions		844	1,076
Foreign currency translation		95	41
Ending balance	\$	4,960	\$ 4,021

The Company performed its annual qualitative assessment of goodwill during the fourth quarter of 2020 and determined a quantitative assessment was not necessary. The Company concluded that goodwill was not impaired and had no accumulated impairment losses at December 31, 2020.

Note 12. Other Intangible Assets

The following table sets forth net intangible assets, other than goodwill, at December 31:

				2020			2019									
		Gross Carrying Amount		, ,		Accumulated Amortization		Net Carrying Amount				Gross Carrying Amount		Accumulated Amortization	r	Net Carrying Amount
						(in m	illions)									
Finite-lived intangible assets																
Capitalized software	\$	2,276	\$	(1,126)	\$	1,150	\$	1,884	\$	(988)	\$	896				
Customer relationships		743		(322)		421		621		(264)		357				
Other		44		(41)		3		44		(44)		_				
Total		3,063		(1,489)		1,574		2,549		(1,296)		1,253				
Indefinite-lived intangible assets																
Customer relationships		179		_		179		164		_		164				
Total	\$	3,242	\$	(1,489)	\$	1,753	\$	2,713	\$	(1,296)	\$	1,417				

The increase in the gross carrying amount of amortized intangible assets in 2020 was primarily related to software additions and businesses acquired in 2020. See Note 2 (Acquisitions) for further details. Certain intangible assets are denominated in foreign currencies. As such, the change in intangible assets includes a component attributable to foreign currency translation. Based on the qualitative assessment performed in 2020, it was determined that the Company's indefinite-lived intangible assets were not impaired.

Amortization on the assets above amounted to \$303 million, \$285 million and \$250 million in 2020, 2019 and 2018, respectively. The following table sets forth the estimated future amortization expense on finite-lived intangible assets on the consolidated balance sheet at December 31, 2020 for the years ending December 31:

	(in millions)
2021	\$ 332
2022	260
2023	211
2024	194
2025 and thereafter	577
	\$ 1,574

Note 13. Accrued Expenses and Accrued Litigation

Accrued expenses consisted of the following at December 31:

	2020		2019
	 (in m	illions)	
Customer and merchant incentives	\$ 3,998	\$	3,892
Personnel costs	727		713
Income and other taxes	208		332
Other	497		552
Total accrued expenses	\$ 5,430	\$	5,489

Customer and merchant incentives represent amounts to be paid to customers under business agreements. As of December 31, 2020 and 2019, the Company's provision for litigation was \$842 million and \$914 million, respectively. These amounts are not included in the accrued expenses table above and are separately reported as accrued litigation on the consolidated balance sheet. See Note 21 (Legal and Regulatory Proceedings) for additional information regarding the Company's accrued litigation.

Note 14. Pension, Postretirement and Savings Plans

The Company and certain of its subsidiaries maintain various pension and other postretirement plans that cover substantially all employees worldwide.

Defined Contribution Plans

The Company sponsors defined contribution retirement plans. The primary plan is the Mastercard Savings Plan, a 401(k) plan for substantially all of the Company's U.S. employees, which is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended. In addition, the Company has several defined contribution plans outside of the U.S. The Company's total expense for its defined contribution plans was \$150 million, \$127 million and \$98 million in 2020, 2019 and 2018, respectively.

Defined Benefit and Other Postretirement Plans

The Company sponsors pension and postretirement plans for certain non-U.S. employees (the "non-U.S. Plans") that cover various benefits specific to their country of employment. Additionally, Vocalink has a defined benefit pension plan (the "Vocalink Plan") which was permanently closed to new entrants and future accruals as of July 21, 2013, however, plan participants' obligations are adjusted for future salary changes. The Company has agreed to make contributions of £15 million (approximately \$20 million as of December 31, 2020) annually until September 2022. The term "Pension Plans" includes the non-U.S. Plans and the Vocalink Plan.

The Company maintains a postretirement plan providing health coverage and life insurance benefits for substantially all of its U.S. employees hired before July 1, 2007 (the "Postretirement Plan").

The Company uses a December 31 measurement date for the Pension Plans and its Postretirement Plan (collectively the "Plans"). The Company recognizes the funded status of its Plans, measured as the difference between the fair value of the plan assets and the projected benefit obligation, in the consolidated balance sheet. The following table sets forth the Plans' funded status, key assumptions and amounts recognized in the Company's consolidated balance sheet at December 31:

		Pensio	on Plan			Postretirement Plan		
		2020		2019		2020		2019
				(\$ in n	nillions	5)		
Change in benefit obligation	\$	531	\$	438	\$	64	\$	57
Benefit obligation at beginning of year Service cost	Ş	13	Ş	438 11	Ş	64 1	Ş	57 1
Interest cost		15 9		11		1		2
Actuarial (gain) loss		43		73		2		2
Benefits paid		(18)		(15)		(4)		(5)
Transfers in		3		(13)		(+)		(5)
Foreign currency translation		23		9		_		_
Benefit obligation at end of year	· · · · · · · · · · · · · · · · · · ·	604		531		70		64
Change in plan assets		004		551		70		04
Fair value of plan assets at beginning of year		518		410		_		_
Actual (loss) gain on plan assets		56		79		_		_
Employer contributions		34		32		4		5
Benefits paid		(18)		(15)		(4)		(5)
Transfers in		5		2		_		(0)
Foreign currency translation		22		10		_		_
Fair value of plan assets at end of year		617		518		_		_
Funded status at end of year	\$	13	\$	(13)	\$	(70)	\$	(64)
Amounts recognized on the consolidated balance sheet consist of:								
Noncurrent assets	\$	28	\$	_	\$	_	\$	_
Other liabilities, short-term		_		_		(4)		(3)
Other liabilities, long-term		(15)		(13)		(66)		(61)
	\$	13	\$	(13)	\$	(70)	\$	(64)
Accumulated other comprehensive income consists of:								
Net actuarial (gain) loss	\$	12	\$	7	\$	9	\$	2
Prior service credit		1		1		(4)		(5)
Balance at end of year	\$	13	\$	8	\$	5	\$	(3)
Weighted-average assumptions used to determine end of year benefit obligations								
Discount rate								
Non-U.S. Plans		0.70 %		0.70 %		*		
Vocalink Plan		1.55 %		2.00 %		*		
Postretirement Plan		*		*		2.50 %		3.25
Rate of compensation increase								
Non-U.S. Plans		1.50 %		1.50 %		*		
Vocalink Plan		2.75 %		2.50 %		*		
Postretirement Plan		*		*		3.00 %		3.00

At December 31, 2020, the Company's aggregated Pension Plan assets exceed the benefit obligations. For plans where the benefit obligations exceeded plan assets, the projected benefit obligation was \$112 million, the accumulated benefit obligation was \$111 million and plan assets were \$97 million. At December 31, 2019, all of the Pension Plans had benefit obligations in excess of plan assets. Information on the Pension Plans were as follows as of December 31:

	2020	2019
	(in r	nillions)
Projected benefit obligation	\$ 604	\$ 531
Accumulated benefit obligation	601	524
Fair value of plan assets	617	518

For the years ended December 31, 2020 and 2019, the Company's projected benefit obligation related to its Pension Plans increased \$73 million and \$93 million, respectively, primarily attributable to actuarial losses related to lower discount rate assumptions.

Components of net periodic benefit cost recorded in earnings were as follows for the Plans for each of the years ended December 31:

		Pension Plans						Postretirement Plan					
		2020		2020 2019 2018		2020		20 20:			2018		
						(in m	nillio	ns)					
rvice cost	\$	13	\$	11	\$	9	\$	1	\$	1	\$	1	
terest cost		9		13		12		2		2		2	
pected return on plan assets		(18)		(18)		(20)		—		—		—	
nortization of actuarial loss		—		1		—		—		—		—	
nortization of prior service credit		—		—		—		(1)		(1)		(2)	
t periodic benefit cost	\$	4	\$	7	\$	1	\$	2	\$	2	\$	1	

The service cost component is recognized in general and administrative expenses on the consolidated statement of operations. Net periodic benefit cost, excluding the service cost component, is recognized in other income (expense) on the consolidated statement of operations.

Other changes in plan assets and benefit obligations recognized in other comprehensive income for the years ended December 31 were as follows:

			nsion Plan			Pos	Postretirement Plan					
	_	2020		2019	:	2018	2	2020		2019		2018
	_					(in mi	llions	s)				
	\$	5	ç	5 12	\$	17	\$	7	\$	9	\$	(2)
		_		_		1		_		_		-
		_		_		-		1		1		2
	\$	5	ç	5 12	\$	18	\$	8	\$	10	\$	_
come)	\$	9	Ş	5 19	\$	19	\$	10	\$	12	\$	1

Assumptions

Weighted-average assumptions used to determine net periodic benefit cost were as follows for the years ended December 31:

	P	Pension Plans			Postretirement Plan		
	2020	2019	2018	2020	2019	2018	
Discount rate							
Non-U.S. Plans	0.70 %	1.80 %	1.80 %	*	*	*	
Vocalink Plan	1.55 %	2.00 %	2.80 %	*	*	*	
Postretirement Plan	*	*	*	3.25 %	4.25 %	3.50 %	
Expected return on plan assets							
Non-U.S. Plans	1.60 %	2.10 %	3.00 %	*	*	*	
Vocalink Plan	3.20 %	3.75 %	4.75 %	*	*	*	
Rate of compensation increase							
Non-U.S. Plans	1.50 %	1.50 %	2.60 %	*	*	*	
Vocalink Plan	2.75 %	2.50 %	3.85 %	*	*	*	
Postretirement Plan	*	*	*	3.00 %	3.00 %	3.00 %	

* Not applicable

The Company's discount rate assumptions are based on yield curves derived from high quality corporate bonds, which are matched to the expected cash flows of each respective plan. The expected return on plan assets assumptions are derived using the current and expected asset allocations of the Pension Plans' assets and considering historical as well as expected returns on various classes of plan assets. The rates of compensation increases are determined by the Company, based upon its long-term plans for such increases.

The following additional assumptions were used at December 31 in accounting for the Postretirement Plan:

	2020	2019
Healthcare cost trend rate assumed for next year	7.00 %	6.00 %
Ultimate trend rate	5.00 %	5.00 %
Year that the rate reaches the ultimate trend rate	8	2

Assets

Plan assets are managed taking into account the timing and amount of future benefit payments. The Vocalink Plan assets are managed with the following target asset allocations: fixed income 35%, U.K. government securities 23%, equity 22%, cash and cash equivalents 12% and real estate 8%. For the non-U.S. Plans, the assets are concentrated primarily in insurance contracts.

The Valuation Hierarchy of the Pension Plans' assets is determined using a consistent application of the categorization measurements for the Company's financial instruments. See Note 1 (Summary of Significant Accounting Policies) for additional information.

The following tables set forth by level, within the Valuation Hierarchy, the Pension Plans' assets at fair value:

				Decem	ber 3	1, 2020						Decemb	er 31	l, 2019			
	Pr A M	Quoted rices in Active Iarkets .evel 1)	Ob	icant Other servable ss (Level 2)		Significant Unobservable Inputs (Level 3)	Fa	ir Value	Pri A Ma	uoted ces in ctive arkets evel 1)	Significan Observ Inputs (L	able		Significant Unobservable Inputs (Level 3)	e	Fair	ir Value
								(in m	illions)								
Cash and cash equivalents ¹	\$	59	\$	_	\$	_	\$	59	\$	16	\$	_	\$		_	\$	16
Mutual funds ²		270		117		_		387		153		193			_		346
Insurance contracts ³		_		96		_		96		_		75			_		75
Total	\$	329	\$	213	\$	_	\$	542	\$	169	\$	268	\$		-	\$	437
Investments at Net Asset Value ("NAV") 4								75									81
Total Plan Assets							\$	617								\$	518

¹ Cash and cash equivalents are valued at quoted market prices, which represent the net asset value of the shares held by the Plans.

² Certain mutual funds are valued at quoted market prices, which represent the value of the shares held by the Plans, and are therefore included in Level 1. Certain other mutual funds are valued at unit values provided by investment managers, which are based on the fair value of the underlying investments utilizing public information, independent external valuation from third-party services or third-party advisors, and are therefore included in Level 2.

³ Insurance contracts are valued at unit values provided by investment managers, which are based on the fair value of the underlying investments utilizing public information, independent external valuation from third-party services or third-party advisors.

⁴ Investments at NAV include mutual funds (comprised primarily of credit investments) and other investments (comprised primarily of real estate investments) and are valued using the net asset value provided by the administrator as a practical expedient, and therefore these investments are not included in the valuation hierarchy. These investments have quarterly redemption frequencies with redemption notice periods ranging from 60 to 90 days.

The following table summarizes expected benefit payments (as of December 31, 2020) through 2030 for the Pension Plans and the Postretirement Plan, including those payments expected to be paid from the Company's general assets. Actual benefit payments may differ from expected benefit payments.

	Pensi	on Plans	Postretirement Plan
		(in mil	lions)
	\$	19 \$	4
		12	4
		14	4
		15	4
		15	4
030		77	20

Note 15. Debt

Long-term debt consisted of the following at December 31:

		2020	2019	Effective Interest Rate
		 (in million	s)	
2020 USD Notes	3.300 % Senior Notes due March 2027	\$ 1,000 \$	_	3.420 %
	3.350 % Senior Notes due March 2030	1,500	-	3.430 %
	3.850 % Senior Notes due March 2050	1,500	_	3.896 %
2019 USD Notes	2.950 % Senior Notes due June 2029	1,000	1,000	3.030 %
	3.650 % Senior Notes due June 2049	1,000	1,000	3.689 %
	2.000 % Senior Notes due March 2025	750	750	2.147 %
2018 USD Notes	3.500 % Senior Notes due February 2028	500	500	3.598 %
	3.950 % Senior Notes due February 2048	500	500	3.990 %
2016 USD Notes	2.000 % Senior Notes due November 2021	650	650	2.236 %
	2.950 % Senior Notes due November 2026	750	750	3.044 %
	3.800 % Senior Notes due November 2046	600	600	3.893 %
2015 EUR Notes ¹	1.100 % Senior Notes due December 2022	859	785	1.265 %
	2.100 % Senior Notes due December 2027	982	896	2.189 %
	2.500 % Senior Notes due December 2030	184	169	2.562 %
2014 USD Notes	3.375 % Senior Notes due April 2024	1,000	1,000	3.484 %
		 12,775	8,600	
Less: Unamortized discour	nt and debt issuance costs	(103)	(73)	
Total debt outstanding		12,672	8,527	
Less: Current portion ²		 (649)		
Long-term debt		\$ 12,023 \$	8,527	

¹ Relates to euro-denominated debt issuance of €1.650 billion in December 2015

² Relates to current portion of the 2016 USD Notes, due in November 2021, classified as current portion of long-term debt on the consolidated balance sheet

In March 2020, the Company issued \$1 billion principal amount of notes due March 2027, \$1.5 billion principal amount of notes due March 2030 and \$1.5 billion principal amount notes due March 2050 (collectively the "2020 USD Notes"). The net proceeds from the issuance of the 2020 USD Notes, after deducting the original issue discount, underwriting discount and offering expenses, were \$3.959 billion.

In May 2019, the Company issued \$1 billion principal amount of notes due June 2029 and \$1 billion principal amount of notes due June 2049 and in December 2019, the Company issued \$750 million principal amount of notes due March 2025 (collectively the "2019 USD Notes"). The net proceeds from the issuance of the 2019 USD Notes, after deducting the original issue discount, underwriting discount and offering expenses, were \$2.724 billion.

The net proceeds, after deducting the original issue discount, underwriting discount and offering expenses, from the issuance of the 2018 USD Notes were \$991 million.

The outstanding debt, described above, is not subject to any financial covenants and it may be redeemed in whole, or in part, at the Company's option at any time for a specified make-whole amount. These notes are senior unsecured obligations and would rank equally with any future unsecured and unsubordinated indebtedness. The proceeds of the notes are to be used for general corporate purposes.

Scheduled annual maturities of the principal portion of long-term debt outstanding at December 31, 2020 are summarized below.

	((in millions)	
2021	\$	650	
2021 2022 2023		859	
2023		—	
2024 2025 Thereafter		1,000	
2025		750	
Thereafter		9,516	
Total	\$	12,775	

On November 14, 2019, the Company increased its commercial paper program (the "Commercial Paper Program") from \$4.5 billion to \$6 billion under which the Company is authorized to issue unsecured commercial paper notes with maturities of up to 397 days from the date of issuance. The Commercial Paper Program is available in U.S. dollars.

In conjunction with the Commercial Paper Program, the Company entered into a committed five-year unsecured \$6 billion revolving credit facility (the "Credit Facility") on November 14, 2019. The Credit Facility, which previously expired on November 14, 2024, was extended on November 14, 2020 for an additional year and now expires on November 13, 2025. The extension did not result in material changes to the terms and conditions of the Credit Facility. Borrowings under the Credit Facility are available in U.S. dollars and/or euros. The facility fee under the Credit Facility is determined according to the Company's credit rating and is payable on the average daily commitment, regardless of usage, per annum. In addition to the facility fee, interest rates on borrowings under the Credit Facility would be based on prevailing market interest rates plus applicable margins that fluctuate based on the Company's credit rating. The Credit Facility contains customary representations, warranties, affirmative and negative covenants, events of default and indemnification provisions. The Company was in compliance in all material respects with the covenants of the Credit Facility at December 31, 2020 and 2019.

Borrowings under the Commercial Paper Program and the Credit Facility are used to provide liquidity for general corporate purposes, including providing liquidity in the event of one or more settlement failures by the Company's customers. The Company may borrow and repay amounts under the Commercial Paper Program and Credit Facility from time to time. The Company had no borrowings under the Credit Facility and the Commercial Paper Program at December 31, 2020 and 2019.

Note 16. Stockholders' Equity

Classes of Capital Stock

Mastercard's amended and restated certificate of incorporation authorizes the following classes of capital stock:

Class	Par Value Per Share	Authorized Shares (in millions)	Dividend and Voting Rights
А	\$0.0001	3,000	One vote per share Dividend rights
В	\$0.0001	1,200	Non-voting Dividend rights
Preferred	\$0.0001	300	No shares issued or outstanding at December 31, 2020 and 2019. Dividend and voting rights are to be determined by the Board of Directors of the Company upon issuance.

Dividends

The Company declared a quarterly cash dividend on its Class A and Class B Common Stock during each of the four quarters of 2020, 2019 and 2018.

The Company declared total per share dividends on its Class A and Class B Common Stock during the years ended December 31 as summarized below:

	2020	2019	2	018		
	(in millions, except per share data)					
Dividends declared per share	\$ 1.64	\$ 1.39	\$	1.08		
Total dividends declared	\$ 1,641	\$ 1,408	\$	1,120		

Ownership and Governance Structure

Equity ownership and voting power of the Company's shares were allocated as follows as of December 31:

	2020)	2019		
	Equity Ownership	General Voting Power	Equity Ownership	General Voting Power	
Public Investors (Class A stockholders)	88.2 %	88.9 %	87.8 %	88.8 %	
Principal or Affiliate Customers (Class B stockholders)	0.8 %	— %	1.1 %	— %	
Mastercard Foundation (Class A stockholders)	11.0 %	11.1 %	11.1 %	11.2 %	

Class B Common Stock Conversions

Shares of Class B common stock are convertible on a one-for-one basis into shares of Class A common stock. Entities eligible to hold Mastercard's Class B common stock are defined in the Company's amended and restated certificate of incorporation (generally the Company's principal or affiliate customers), and they are restricted from retaining ownership of shares of Class A common stock. Class B stockholders are required to subsequently sell or otherwise transfer any shares of Class A common stock received pursuant to such a conversion.

Mastercard Foundation

In connection and simultaneously with its 2006 initial public offering (the "IPO"), the Company issued and donated 135 million newly authorized shares of Class A common stock to Mastercard Foundation. Mastercard Foundation is a private charitable foundation incorporated in Canada that is controlled by directors who are independent of the Company and its principal customers. Under the terms of the donation, Mastercard Foundation became able to resell the donated shares in May 2010 to the extent necessary to meet charitable disbursement requirements pursuant to Canadian tax law. Under such current law, Mastercard Foundation must annually disburse at least 3.5% of its assets not used in its charitable activities and administration in the previous eight quarters ("Disbursement Quota"). However, Mastercard Foundation obtained permission from the Canada Revenue Agency to, until December 31, 2021, meet its cumulative Disbursement Quota obligations over a period of time that, on average, demonstrates compliance with the requirement for such established time period. Mastercard Foundation will be permitted to sell all of its remaining shares beginning May 1, 2027, subject to certain conditions.

Stock Repurchase Programs

The Company's Board of Directors have approved share repurchase programs authorizing the Company to repurchase shares of its Class A Common Stock. These programs become effective after the completion of the previously authorized share repurchase program.

December December December December December **Board authorization dates** 2020 2019 2018 2017 2016 Not yet Date program became effective January 2020 January 2019 March 2018 April 2017 Total effective (in millions, except average price data) \$ 6,000 Board authorization \$ 8,000 \$ 6,500 \$ 4,000 \$ 4,000 \$ 28,500 \$ Dollar-value of shares repurchased in 2018 \$ \$ \$ 3,699 \$ 1,234 \$ 4,933 _ Remaining authorization at December 31, 2018 \$ \$ 6,500 \$ 301 \$ \$ 6,801 \$ \$ \$ 301 Dollar-value of shares repurchased in 2019 \$ _ \$ 6,196 \$ \$ 6,497 _ _ \$ 8,000 \$ 8,304 Remaining authorization at December 31, 2019 \$ \$ 304 \$ \$ _ _ _ Dollar-value of shares repurchased in 2020 \$ \$ 4,169 304 \$ \$ 4,473 \$ \$ _ Remaining authorization at December 31, 2020 \$ 6,000 \$ 3,831 \$ \$ \$ _ \$ 9,831 _ _ Shares repurchased in 2018 19.0 26.2 7.2 Average price paid per share in 2018 \$ \$ \$ 194.77 \$ 171.11 188.26 \$ _ \$ Shares repurchased in 2019 24.8 26.4 1.6 _ Average price paid per share in 2019 \$ \$ 249.58 \$ 188.38 245.89 \$ \$ Ś _ Shares repurchased in 2020 14.3 13.3 1.0 _ Average price paid per share in 2020 \$ \$ 313.26 \$ 304.89 \$ \$ 312.68 Ś _ _ _ Cumulative shares repurchased through December 31, 2020 13.3 25.8 20.6 28.2 87.9 141.99 Cumulative average price paid per share \$ _ \$ 313.26 \$ 251.72 \$ 194.27 \$ \$ 212.41

The following table summarizes the Company's share repurchase authorizations of its Class A common stock through December 31, 2020, as well as historical purchases:

The following table presents the changes in the Company's outstanding Class A and Class B common stock for the years ended December 31:

	Outstanding	Shares
	Class A	Class B
	(in millio	ons)
Balance at December 31, 2017	1,039.7	14.1
Purchases of treasury stock	(26.2)	_
Share-based payments	2.8	_
Conversion of Class B to Class A common stock	2.3	(2.3)
Balance at December 31, 2018	1,018.6	11.8
Purchases of treasury stock	(26.4)	_
Share-based payments	3.2	_
Conversion of Class B to Class A common stock	0.6	(0.6)
Balance at December 31, 2019	996.0	11.2
Purchases of treasury stock	(14.3)	_
Share-based payments	2.3	_
Conversion of Class B to Class A common stock	2.9	(2.9)
Balance at December 31, 2020	986.9	8.3

Note 17. Accumulated Other Comprehensive Income (Loss)

The changes in the balances of each component of accumulated other comprehensive income (loss), net of tax, for the years ended December 31, 2020 and 2019 were as follows:

	December 31, 2019		Increase	Increase / (Decrease)		Reclassifications		ber 31, 2020
				(in	millions)			
Foreign currency translation adjustments ¹	\$	(638)	\$	286	\$	_	\$	(352)
Translation adjustments on net investment hedge ²		(38)		(137)		_		(175)
Cash flow hedges								
Interest rate contracts ³		11		(147)		3		(133)
Defined benefit pension and other postretirement plans ⁴		(9)		(10)		(1)		(20)
Investment securities available-for-sale		1		(1)		_		_
Accumulated Other Comprehensive Income (Loss)	\$	(673)	\$	(9)	\$	2	\$	(680)

	Deceml	oer 31, 2018	Increase	/ (Decrease)	Reclassifications		December 31, 2019	
				(in ı	nillions)			
Foreign currency translation adjustments ¹	\$	(661)	\$	23	\$	_	\$	(638)
Translation adjustments on net investment hedge ²		(66)		28		_		(38)
Cash flow hedges								
Interest rate contracts ³		_		11		_		11
Defined benefit pension and other postretirement plans ⁴		10		(17)		(2)		(9)
Investment securities available-for-sale		(1)		2		_		1
Accumulated Other Comprehensive Income (Loss)	\$	(718)	\$	47	\$	(2)	\$	(673)

^{1.} During 2020, the decrease in the accumulated other comprehensive loss related to foreign currency translation adjustments was driven primarily by the appreciation of the Euro and British pound partially offset by the depreciation of the Brazilian real. During 2019, the decrease in the accumulated other comprehensive loss related to foreign currency translation adjustments was driven primarily by the appreciation of the British pound partially offset by the depreciation o

^{2.} The Company uses foreign currency denominated debt to hedge a portion of its net investment in foreign operations against adverse movements in exchange rates. Changes in the value of the debt are recorded in accumulated other comprehensive income (loss). During 2020, the increase in the accumulated other comprehensive loss related to the net investment hedge was driven by the appreciation of the euro. During 2019, the decrease in the accumulated other comprehensive loss related to the net investment hedge was driven by the depreciation of the euro. See Note 23 (Derivative and Hedging Instruments) for additional information.

^{3.} In 2019, the Company entered into treasury rate locks which are accounted for as cash flow hedges. In the first quarter of 2020, in connection with the issuance of the 2020 USD Notes, these contracts were settled for a loss of \$175 million, or \$136 million net of tax, recorded in accumulated other comprehensive income (loss). The cumulative loss will be reclassified as an adjustment to interest expense over the respective terms of the 2020 USD Notes. See Note 23 (Derivative and Hedging Instruments) for additional information.

^{4.} During 2020, the increase in the accumulated other comprehensive loss related to the Company's Plans was driven primarily by an actuarial loss within the Postretirement Plan. During 2019, the decrease in the accumulated other comprehensive gain related to the Company's Plans was primarily driven by actuarial losses within the Vocalink and non-U.S. Plans. See Note 14 (Pension, Postretirement and Savings Plans) for additional information.

Note 18. Share-Based Payments

In May 2006, the Company implemented the Mastercard Incorporated 2006 Long Term Incentive Plan, which was amended and restated as of June 5, 2012 (the "LTIP"). The LTIP is a stockholder-approved plan that permits the grant of various types of equity awards to employees. The Company has granted Options, RSUs and PSUs under the LTIP. The Company uses the straight-line method of attribution for expensing all equity awards. Compensation expense is recorded net of estimated forfeitures, with estimates adjusted as appropriate.

There are approximately 116 million shares of Class A common stock authorized for equity awards under the LTIP. Although the LTIP permits the issuance of shares of Class B common stock, no such shares have been authorized for issuance. Shares issued as a result of Option exercises and the conversions of RSUs and PSUs were funded primarily with the issuance of new shares of Class A common stock.

Stock Options

Options expire ten years from the date of grant and vest ratably over four years. For Options granted, a participant's unvested awards are forfeited upon termination. In the event a participant terminates employment due to disability or retirement more than seven months after receiving the award, however, the participant retains all of their awards without providing additional service to the Company. Retirement eligibility is dependent upon age and years of service. Compensation expense is recognized over the vesting period as stated in the LTIP.

The fair value of each Option is estimated on the date of grant using a Black-Scholes option pricing model. The following table presents the weighted-average assumptions used in the valuation and the resulting weighted-average fair value per option granted for the years ended December 31:

	2020	2020 2019		
Risk-free rate of return	1.0 %	6 2.6 %	2.7 %	
Expected term (in years)	6.00	6.00	6.00	
Expected volatility	19.3 %	۵	19.7 %	
Expected dividend yield	0.6 %	6 0.6 %	0.6 %	
Weighted-average fair value per Option granted	\$ 80.92	\$ 53.09	\$ 40.90	

The risk-free rate of return was based on the U.S. Treasury yield curve in effect on the date of grant. The expected term and the expected volatility were based on historical Mastercard information. The expected dividend yields were based on the Company's expected annual dividend rate on the date of grant.

The following table summarizes the Company's option activity for the year ended December 31, 2020:

	Options	Weighted- Average Exercise Price		Weighted-Average Remaining Contractual Term	Aggregate Intrinsic Value	
	(in millions)		(in years)	(in	millions)	
Outstanding at January 1, 2020	6.6	\$	117			
Granted	0.4	\$	263			
Exercised	(1.3)	\$	75			
Forfeited/expired	_	\$	229			
Outstanding at December 31, 2020	5.7	\$	137	6.0	\$	1,259
Exercisable at December 31, 2020	3.8	\$	106	5.1	\$	962
Options vested and expected to vest at December 31, 2020	5.7	\$	137	6.0	\$	1,257

As of December 31, 2020, there was \$37 million of total unrecognized compensation cost related to non-vested Options. The cost is expected to be recognized over a weighted-average period of 2.1 years.

Restricted Stock Units

For RSUs granted on or after March 1, 2020, the awards generally vest ratably over four years. For RSUs granted before March 1, 2020, the awards generally vest after three years. A participant's unvested awards are forfeited upon termination of employment. In the event of termination due to job elimination (as defined by the Company), however, a participant will retain a pro-rata portion of the unvested awards for services performed through the date of termination. In the event a participant terminates employment due to disability or retirement more than seven months after receiving the award, the participant retains all of their awards without providing additional service to the Company. Compensation expense is recognized over the shorter of the vesting periods stated in the LTIP or the date the individual becomes eligible to retire but not less than seven months.

The following table summarizes the Company's RSU activity for the year ended December 31, 2020:

	Units	Weighted- Average Grant- Date Fair Value			regate sic Value	
	(in millions)			(in millions)		
Outstanding at January 1, 2020	2.9	\$	166			
Granted	0.9	\$	288			
Converted	(1.2)	\$	116			
Forfeited	(0.1)	\$	218			
Outstanding at December 31, 2020	2.5	\$	231	\$	898	
RSUs expected to vest at December 31, 2020	2.4	\$	230	\$	861	

The fair value of each RSU is the closing stock price on the New York Stock Exchange of the Company's Class A common stock on the date of grant, adjusted for the exclusion of dividend equivalents. Upon vesting, a portion of the RSU award may be withheld to satisfy the minimum statutory withholding taxes. The remaining RSUs will be settled in shares of the Company's Class A common stock after the vesting period. As of December 31, 2020, there was \$233 million of total unrecognized compensation cost related to non-vested RSUs. The cost is expected to be recognized over a weighted-average period of 2.4 years.

Performance Stock Units

PSUs vest after three years, however, awards granted on or after March 1, 2019 are subject to a mandatory one-year post-vest hold. A participant's unvested awards are forfeited upon termination of employment. In the event of termination due to job elimination (as defined by the Company), however, a participant will retain a pro-rata portion of the unvested awards for services performed through the date of termination. In the event a participant terminates employment due to disability or retirement more than seven months after receiving the award, the participant retains all of their awards without providing additional service to the Company.

The following table summarizes the Company's PSU activity for the year ended December 31, 2020:

	Units	Weighted- Average Grant-Date Fair Value			gregate sic Value
	(in millions)			(in millions)	
Outstanding at January 1, 2020	0.5	\$	167		
Granted	0.2	\$	291		
Converted	(0.3)	\$	126		
Outstanding at December 31, 2020	0.4	\$	259	\$	148
PSUs expected to vest at December 31, 2020	0.4	\$	259	\$	148

Since 2013, PSUs containing performance and market conditions have been issued. Performance measures used to determine the actual number of shares that vest after three years include net revenue growth, EPS growth and relative total shareholder return ("TSR"). Relative TSR is considered a market condition, while net revenue and EPS growth are considered performance conditions. The Monte Carlo simulation valuation model is used to determine the grant-date fair value.

Compensation expense for PSUs is recognized over the requisite service period, or the date the individual becomes eligible to retire but not less than seven months, if it is probable that the performance target will be achieved and subsequently adjusted if the probability assessment changes. During the year ended December 31, 2020, performance targets related to PSU awards granted in 2018, and scheduled to vest in 2021 ("2018 PSU Awards"), were adjusted to exclude certain pandemic-related financial impacts deemed outside of the Company's control. The adjustment required the Company to apply modification accounting to the 2018 PSU Awards. The modification had an immaterial impact on compensation expense expected to be recognized over the remaining service period. As of December 31, 2020, there was \$38 million of total unrecognized compensation cost related to non-vested PSUs. The cost is expected to be recognized over a weighted-average period of 1.4 years.

Additional Information

The following table includes additional share-based payment information for each of the years ended December 31:

	2020	2019	2018			
	(in million	(in millions, except weighted-ave value)				
Share-based compensation expense: Options, RSUs and PSUs	\$ 25	1\$ 250	\$ 196			
Income tax benefit recognized for equity awards	5	3 53	41			
Income tax benefit realized related to Options exercised	6	3 69	53			
Options:						
Total intrinsic value of Options exercised	31	7 317	242			
RSUs:						
Weighted-average grant-date fair value of awards granted	28	3 226	171			
Total intrinsic value of RSUs converted into shares of Class A common stock	33) 394	194			
PSUs:						
Weighted-average grant-date fair value of awards granted	29	L 231	226			
Total intrinsic value of PSUs converted into shares of Class A common stock	9	2 85	40			

Note 19. Commitments

At December 31, 2020, the Company had the following future minimum payments due under noncancelable agreements, primarily related to sponsorships to promote the Mastercard brand and licensing arrangements and a commitment to purchase the remaining shares of a majority-owned joint venture. The Company has accrued \$22 million of these future payments as of December 31, 2020.

	(in million	ıs)
2021	\$	573
2022		255
2021 2022 2023 2024		117
2024		78
2025 Thereafter		1
Thereafter		_
Total	\$ 1,	,024

Note 20. Income Taxes

Components of Income and Income tax expense

The domestic and foreign components of income before income taxes for the years ended December 31 are as follows:

	2020		2019		2018	
	 (in millions)					
United States	\$ 3,304	\$	4,213	\$	3,510	
Foreign	4,456		5,518		3,694	
Income before income taxes	\$ 7,760	\$	9,731	\$	7,204	

The total income tax provision for the years ended December 31 is comprised of the following components:

	2020	2019	2018		
		(in millions)			
Current					
Federal	\$ 439	\$ 642	\$ 649		
State and local	56	81	69		
Foreign	781	897	871		
	1,276	1,620	1,589		
Deferred					
Federal	106	40	(228)		
State and local	9	_	(11)		
Foreign	(42)	(47)	(5)		
	73	(7)	(244)		
Income tax expense	\$ 1,349	\$ 1,613	\$ 1,345		

Effective Income Tax Rate

A reconciliation of the effective income tax rate to the U.S. federal statutory income tax rate for the years ended December 31, is as follows:

		2020		2019				.8	
	A	mount	Percent	Ar	nount	Percent	Amount		Percent
				(in ı	millions, exce	pt percentages)			
Income before income taxes	\$	7,760		\$	9,731		\$ 7,2	.04	
Federal statutory tax		1,630	21.0 %		2,044	21.0 %	1,5	13	21.0 %
State tax effect, net of federal benefit		57	0.7 %		65	0.7 %		46	0.6 %
Foreign tax effect		(193)	(2.5)%		(208)	(2.1)%		92)	(1.3)%
European Commission fine		_	— %		-	— %	1	.94	2.7 %
Foreign tax credits ¹		_	— %		(32)	(0.3)%	(1	10)	(1.5)%
Windfall benefit		(119)	(1.5)%		(129)	(1.3)%		72)	(1.0)%
Other, net		(26)	(0.3)%		(127)	(1.4)%	(1	34)	(1.8)%
Income tax expense	\$	1,349	17.4 %	\$	1,613	16.6 %	\$ 1,3	45	18.7 %

¹ Included within the impact of the foreign tax credits is \$27 million for 2019 and \$90 million for 2018 of tax benefits relating to the carryback of certain foreign tax credits.

The effective income tax rates for the years ended December 31, 2020, 2019 and 2018 were 17.4%, 16.6% and 18.7%, respectively. The effective income tax rate for 2020 was higher than the effective income tax rate for 2019, primarily due to discrete tax benefits in 2019, partially offset by a more favorable geographic mix of earnings in 2020. The 2019 discrete tax benefits related to a favorable court ruling, a reduction to the Company's transition tax liability and additional foreign tax credits which can be carried back under U.S. tax reform transition rules issued by the Department of the Treasury and the Internal Revenue Service.

The effective income tax rate for 2019 was lower than the effective income tax rate for 2018 primarily due to the nondeductible nature of the fine issued by the European Commission in 2018 and a discrete tax benefit related to a favorable court ruling in 2019. These 2019 benefits were partially offset by discrete tax benefits in 2018 primarily related to foreign tax credits generated in 2018 as a result of U.S. tax reform, which can be carried back and utilized in 2017 under transition rules issued by the Department of the Treasury and the Internal Revenue Service.

Singapore Income Tax Rate

In connection with the expansion of the Company's operations in the Asia Pacific, Middle East and Africa region, the Company's subsidiary in Singapore, Mastercard Asia Pacific Pte. Ltd. ("MAPPL") received an incentive grant from the Singapore Ministry of Finance in 2010. The incentive had provided MAPPL with, among other benefits, a reduced income tax rate for the 10-year period commencing January 1, 2010 on taxable income in excess of a base amount. The Company continued to explore business opportunities in this region, resulting in an expansion of the incentives being granted by the Ministry of Finance, including a further reduction to the income tax rate on taxable income in excess of a revised fixed base amount commencing July 1, 2011 and continuing through December 31, 2025. Without the incentive grant, MAPPL would have been subject to the statutory income tax rate on its earnings. For 2020, 2019 and 2018, the impact of the incentive grant received from the Ministry of Finance resulted in a reduction of MAPPL's income tax liability of \$260 million, or \$0.26 per diluted share, \$300 million, or \$0.29 per diluted share, and \$212 million, or \$0.20 per diluted share, respectively.

Indefinite Reinvestment

As of December 31, 2020 the Company had deferred tax liabilities of \$61 million primarily related to the tax effect of the estimated foreign exchange impact on unremitted earnings. The Company expects that foreign withholding taxes associated with future repatriation of these earnings will not be material. Earnings of approximately \$0.6 billion remain permanently reinvested and the Company estimates that immaterial U.S. federal and state and local income tax expense would result, primarily from foreign exchange, if these earnings were to be repatriated.

Deferred Taxes

Deferred tax assets and liabilities represent the expected future tax consequences of temporary differences between the carrying amounts and the tax basis of assets and liabilities. The components of deferred tax assets and liabilities at December 31 are as follows:

	2020		2019		
	(in 1	(in millions)			
Deferred Tax Assets					
Accrued liabilities	\$ 324	\$	354		
Compensation and benefits	218		214		
State taxes and other credits	47		41		
Net operating and capital losses	147		119		
Unrealized gain/loss - 2015 EUR Notes	58		20		
U.S. foreign tax credits	276		145		
Intangible assets	182		157		
Other items	142		74		
Less: Valuation allowance	(353)	(205)		
Total Deferred Tax Assets	1,041		919		
Deferred Tax Liabilities					
Prepaid expenses and other accruals	78		83		
Goodwill and intangible assets	216		187		
Property, plant and equipment	183		128		
Previously taxed earnings and profits	61		_		
Other items	98		63		
Total Deferred Tax Liabilities	636		461		
Net Deferred Tax Assets	\$ 405	\$	458		

The valuation allowance balance at December 31, 2020 and 2019 primarily relates to the Company's ability to recognize future tax benefits associated with the carry forward of U.S. foreign tax credits generated in the current and prior periods and certain foreign net operating losses. The recognition of the foreign tax credits is dependent upon the realization of future foreign source income in the appropriate foreign tax credit basket in accordance with U.S. federal income tax law. The recognition of the foreign losses is

dependent upon the future taxable income in such jurisdictions and the ability under tax law in these jurisdictions to utilize net operating losses following a change in control.

A reconciliation of the beginning and ending balance for the Company's unrecognized tax benefits for the years ended December 31, is as follows:

	202	0	2019	2018	
		(in millions)			
Beginning balance	\$	203	\$ 164	\$ 183	
Additions:					
Current year tax positions		19	22	23	
Prior year tax positions		192	37	5	
Reductions:					
Prior year tax positions		(10)	(11)	(17)	
Settlements with tax authorities		(12)	(2)	(18)	
Expired statute of limitations		(4)	(7)	(12)	
Ending balance	\$	388	\$ 203	\$ 164	

As of December 31, 2020, the amount of unrecognized tax benefit was \$388 million. This amount, if recognized, would reduce the effective income tax rate. The Company's unrecognized tax benefits increased primarily due to a prior year tax issue resulting from a refund claim filed in 2020.

The Company is subject to tax in the U.S., Belgium, Singapore, the United Kingdom and various other foreign jurisdictions, as well as state and local jurisdictions. Uncertain tax positions are reviewed on an ongoing basis and are adjusted after considering facts and circumstances, including progress of tax audits, developments in case law and closing of statutes of limitation. Within the next twelve months, the Company believes that the resolution of certain federal, foreign and state and local examinations are reasonably possible and that a change in estimate, reducing unrecognized tax benefits, may occur. While such a change may be significant, it is not possible to provide a range of the potential change until the examinations progress further or the related statutes of limitation expire. The Company has effectively settled its U.S. federal income tax obligations through 2011. With limited exception, the Company is no longer subject to state and local or foreign examinations by tax authorities for years before 2010.

At December 31, 2020 and 2019, the Company had a net income tax-related interest payable of \$24 million and \$13 million, respectively, in its consolidated balance sheet. Tax-related interest income/(expense) in 2020, 2019 and 2018 was not material. In addition, as of December 31, 2020 and 2019, the amounts the Company has recognized for penalties payable in its consolidated balance sheet were not material.

Note 21. Legal and Regulatory Proceedings

Mastercard is a party to legal and regulatory proceedings with respect to a variety of matters in the ordinary course of business. Some of these proceedings are based on complex claims involving substantial uncertainties and unascertainable damages. Accordingly, except as discussed below, it is not possible to determine the probability of loss or estimate damages, and therefore, Mastercard has not established reserves for any of these proceedings. When the Company determines that a loss is both probable and reasonably estimable, Mastercard records a liability and discloses the amount of the liability if it is material. When a material loss contingency is only reasonably possible, Mastercard does not record a liability, but instead discloses the nature and the amount of the claim, and an estimate of the loss or range of loss, if such an estimate can be made. Unless otherwise stated below with respect to these matters, Mastercard cannot provide an estimate of the possible loss or range of loss based on one or more of the following reasons: (1) actual or potential plaintiffs have not claimed an amount of monetary damages or the amounts are unsupportable or exaggerated, (2) the matters are in early stages, (3) there is uncertainty as to the outcome of pending appeals or motions, (4) there are significant factual issues to be resolved, (5) the existence in many such proceedings of multiple defendants or potential defendants whose share of any potential financial responsibility has yet to be determined and/or (6) there are novel legal issues presented. Furthermore, except as identified with respect to any proceedings discussed below could result in financial condition or overall business. However, an adverse judgment or other outcome or settlement with respect to any proceedings discussed below could result in fines or payments by Mastercard and/or could require Mastercard to change its business practices. In addition, an adverse outcome in a regulatory proceeding could lead to the filing of civil damage claims and p

Interchange Litigation and Regulatory Proceedings

Mastercard's interchange fees and other practices are subject to regulatory, legal review and/or challenges in a number of jurisdictions, including the proceedings described below. When taken as a whole, the resulting decisions, regulations and legislation with respect to interchange fees and acceptance practices may have a material adverse effect on the Company's prospects for future growth and its overall results of operations, financial position and cash flows.

United States. In June 2005, the first of a series of complaints were filed on behalf of merchants (the majority of the complaints were styled as class actions, although a few complaints were filed on behalf of individual merchant plaintiffs) against Mastercard International, Visa U.S.A., Inc., Visa International Service Association and a number of financial institutions. Taken together, the claims in the complaints were generally brought under both Sections 1 and 2 of the Sherman Act, which prohibit monopolization and attempts or conspiracies to monopolize a particular industry, and some of these complaints contain unfair competition law claims under state law. The complaints allege, among other things, that Mastercard, Visa, and certain financial institutions conspired to set the price of interchange fees, enacted point of sale acceptance rules (including the no surcharge rule) in violation of antitrust laws and engaged in unlawful tying and bundling of certain products and services, resulting in merchants paying excessive costs for the acceptance of Mastercard and Visa credit and debit cards. The cases were consolidated for pre-trial proceedings in the U.S. District Court for the Eastern District of New York in MDL No. 1720. The plaintiffs filed a consolidated class action complaint that seeks treble damages.

In July 2006, the group of purported merchant class plaintiffs filed a supplemental complaint alleging that Mastercard's initial public offering of its Class A Common Stock in May 2006 (the "IPO") and certain purported agreements entered into between Mastercard and financial institutions in connection with the IPO: (1) violate U.S. antitrust laws and (2) constituted a fraudulent conveyance because the financial institutions allegedly attempted to release, without adequate consideration, Mastercard's right to assess them for Mastercard's litigation liabilities. The class plaintiffs sought treble damages and injunctive relief including, but not limited to, an order reversing and unwinding the IPO.

In February 2011, Mastercard and Mastercard International entered into each of: (1) an omnibus judgment sharing and settlement sharing agreement with Visa Inc., Visa U.S.A. Inc. and Visa International Service Association and a number of financial institutions; and (2) a Mastercard settlement and judgment sharing agreement with a number of financial institutions. The agreements provide for the apportionment of certain costs and liabilities which Mastercard, the Visa parties and the financial institutions may incur, jointly and/or severally, in the event of an adverse judgment or settlement of one or all of the cases in the merchant litigations. Among a number of scenarios addressed by the agreements, in the event of a global settlement involving the Visa parties, the financial institutions and Mastercard, Mastercard would pay 12% of the monetary portion of the settlement. In the event of a settlement involving only Mastercard and the financial institutions with respect to their issuance of Mastercard cards, Mastercard would pay 36% of the monetary portion of such settlement.

In October 2012, the parties entered into a definitive settlement agreement with respect to the merchant class litigation (including with respect to the claims related to the IPO) and the defendants separately entered into a settlement agreement with the individual merchant plaintiffs. The settlements included cash payments that were apportioned among the defendants pursuant to the omnibus judgment sharing and settlement sharing agreement described above. Mastercard also agreed to provide class members with a short-term reduction in default credit interchange rates and to modify certain of its business practices, including its "no surcharge" rule. The court granted final approval of the settlement in December 2013, and objectors to the settlement appealed that decision to the U.S. Court of Appeals for the Second Circuit. In June 2016, the court of appeals vacated the class action certification, reversed the settlement approval and sent the case back to the district court for further proceedings. The court of appeals' ruling was based primarily on whether the merchants were adequately represented by counsel in the settlement. As a result of the appellate court ruling, the district court divided the merchants' claims into two separate classes - monetary damages claims (the "Damages Class") and claims seeking changes to business practices (the "Rules Relief Class"). The court appointed separate counsel for each class.

In September 2018, the parties to the Damages Class litigation entered into a class settlement agreement to resolve the Damages Class claims. Mastercard increased its reserve by \$237 million during 2018 to reflect both its expected financial obligation under the Damages Class settlement agreement and the filed and anticipated opt-out merchant cases. The time period during which Damages Class members were permitted to opt out of the class settlement agreement ended in July 2019 with merchants representing slightly more than 25% of the Damages Class interchange volume choosing to opt out of the settlement. The district court granted final approval of the settlement in December 2019. The district court's settlement approval order has been appealed. Mastercard has commenced settlement negotiations with a number of the opt-out merchants and has reached settlements and/or agreements in principle to settle a number of these claims. The Damages Class settlement agreement does not relate to the Rules Relief Class claims. Separate settlement negotiations with the Rules Relief Class are ongoing. In December 2020, the Rules Relief Class filed a motion for class certification. Briefing on summary judgment motions in the Rules Relief Class and opt-out merchant cases was completed in December 2020.

As of December 31, 2020 and 2019, Mastercard had accrued a liability of \$783 million and \$914 million, respectively, as a reserve for both the Damages Class litigation and the opt-out merchant cases. As of December 31, 2020 and 2019, Mastercard had \$586 million and \$584 million, respectively, in a qualified cash settlement fund related to the Damages Class litigation and classified as restricted cash on its consolidated balance sheet. The reserve as of December 31, 2020 for both the Damages Class litigation and the opt-out merchants represents Mastercard's best estimate of its probable liabilities in these matters. The portion of the accrued liability relating to both the opt-out merchants and the Damages Class litigation settlement does not represent an estimate of a loss, if any, if the matters were litigated to a final outcome. Mastercard cannot estimate the potential liability if that were to occur.

Canada. In December 2010, a proposed class action complaint was commenced against Mastercard in Quebec on behalf of Canadian merchants. The suit essentially repeated the allegations and arguments of a previously filed application by the Canadian Competition Bureau to the Canadian Competition Tribunal (dismissed in Mastercard's favor) concerning certain Mastercard rules related to point-of-sale acceptance, including the "honor all cards" and "no surcharge" rules. The Quebec suit sought compensatory and punitive damages in unspecified amounts, as well as injunctive relief. In the first half of 2011, additional purported class action lawsuits were commenced in British Columbia and Ontario against Mastercard, Visa and a number of large Canadian financial institutions. The British Columbia suit sought compensatory damages of \$5 billion on the basis of alleged conspiracy and various alleged breaches of the Canadian Competition Act. Additional purported class action complaints were commenced in Saskatchewan and Alberta with claims that largely mirror those in the other suits. In June 2017, Mastercard entered into a class settlement agreement to resolve all of the Canadian class action litigation. The settlement, which requires Mastercard to make a cash payment and modify its "no surcharge" rule, has received court approval in each Canadian province. Objectors to the settlement have sought to appeal the approval orders. All appellate courts have rejected the objectors' appeals. In one of the appeals, the objectors have until April 2021 to request an appeal to the Supreme Court of Canada. For the remainder of the appeals, the Supreme Court has previously denied such requests.

Europe. In July 2015, the European Commission ("EC") issued a Statement of Objections related to Mastercard's interregional interchange fees and central acquiring rule within the European Economic Area (the "EEA"). The Statement of Objections, which followed an investigation opened in 2013, included preliminary conclusions concerning the alleged anticompetitive effects of these practices. In December 2018, Mastercard announced the anticipated resolution of the EC's investigation. With respect to interregional interchange fees, Mastercard made a settlement proposal whereby it would make changes to its interregional interchange fees. The EC issued a decision accepting the settlement in April 2019, with changes to interregional interchange fees going into effect in the fourth quarter of 2019. In addition, with respect to Mastercard's historic central acquiring rule, the EC issued a negative decision in January 2019. The EC's negative decision covers a period of time of less than two years before the rule's modification. The rule was modified in late 2015 to comply with the requirements of the EEA Interchange Fee Regulation. The decision does not require any modification of Mastercard's current business practices but included a fine of €571 million, which was paid in April 2019. Mastercard incurred a charge of \$654 million in 2018 in relation to this matter.

Since May 2012, a number of United Kingdom ("U.K.") merchants filed claims or threatened litigation against Mastercard seeking damages for merchants allegedly paying excessive costs for the acceptance of Mastercard credit and debit cards arising out of alleged anti-competitive conduct with respect to, among other things, Mastercard's cross-border interchange fees and its U.K. and Ireland domestic interchange fees (the "U.K. Merchant claimants"). In addition, Mastercard, has faced similar filed or threatened litigation by merchants with respect to interchange rates in other countries in Europe (the "Pan-European Merchant claimants"). In aggregate, the alleged damages claims from the U.K. and Pan-European Merchant claimants were in the amount of approximately £3 billion (approximately \$4.5 billion as of December 31, 2020). Mastercard has resolved over £2 billion (approximately \$3 billion as of December 31, 2020) of these damages claims through settlement or judgment.

In January 2017, Mastercard received a liability judgment in its favor on all significant matters in a separate action brought by ten of the U.K. Merchant claimants. Three of the U.K. Merchant claimants appealed the judgment, and these appeals were combined with Mastercard's appeal of a 2016 judgment in favor of one U.K. merchant. In July 2018, the U.K. appellate court heard the appeals of the four merchants and ruled against both Mastercard and Visa on two of the three legal issues being considered. The parties appealed the rulings to the U.K. Supreme Court. In June 2020, the U.K. Supreme Court ruled against Mastercard and Visa with respect to one of the liability issues being considered by the Court related to U.K domestic interchange fees. Additionally, the U.K Supreme Court set out the legal standard that should be applied by lower trial courts with respect to determining whether interchange was exemptible under applicable law, and provided guidance to lower courts with regard to the legal standard that should be applied in assessing merchants' damages claims. The U.K. Supreme Court for a determination of the set of the trial court for a determination of damages issues only. A hearing in one of these merchant cases on liability and damages issues is expected to be scheduled for the fourth quarter of 2021, while a trial on damages for the other three merchant claims is not expected to occur until 2023.

Since June 2015, Mastercard has recorded litigation provisions for settlements, judgments and legal fees relating to these claims, including charges of \$237 million in 2018. Mastercard continues to litigate with the remaining U.K. and Pan-European Merchant claimants and it has submitted statements of defense disputing liability and damages claims. The majority of these merchant claims

generally had been stayed pending the decision of the U.K. Supreme Court, and a number of those matters are now progressing with motion practice and discovery. Mastercard incurred charges of \$22 million in 2020 to reflect both the estimated attorneys' fees incurred by the four merchant claimants in the U.K. Supreme Court appeal, as well as settlements with a number of Pan-European merchants.

In September 2016, a proposed collective action was filed in the United Kingdom on behalf of U.K. consumers seeking damages for intra-EEA and domestic U.K. interchange fees that were allegedly passed on to consumers by merchants between 1992 and 2008. The complaint, which seeks to leverage the European Commission's 2007 decision on intra-EEA interchange fees, claims damages in an amount that exceeds £14 billion (approximately \$19 billion as of December 31, 2020). In July 2017, the trial court denied the plaintiffs' application for the case to proceed as a collective action. In April 2019, the U.K. appellate court granted the plaintiffs' appeal of the trial court's decision and sent the case back to the trial court for a re-hearing on the plaintiffs' collective action application. In December 2020, the U.K. Supreme Court rejected Mastercard's appeal of this ruling. The case has been sent back to the trial court for a re-hearing on the plaintiffs' collective action application in light of the Supreme Court decision. The hearing is scheduled to occur in late March 2021.

ATM Non-Discrimination Rule Surcharge Complaints

In October 2011, a trade association of independent Automated Teller Machine ("ATM") operators and 13 independent ATM operators filed a complaint styled as a class action lawsuit in the U.S. District Court for the District of Columbia against both Mastercard and Visa (the "ATM Operators Complaint"). Plaintiffs seek to represent a class of non-bank operators of ATM terminals that operate in the United States with the discretion to determine the price of the ATM access fee for the terminals they operate. Plaintiffs allege that Mastercard and Visa have violated Section 1 of the Sherman Act by imposing rules that require ATM operators to charge non-discriminatory ATM surcharges for transactions processed over Mastercard's and Visa's respective networks that are not greater than the surcharge for transactions over other networks accepted at the same ATM. Plaintiffs seek both injunctive and monetary relief equal to treble the damages they claim to have sustained as a result of the alleged violations and their costs of suit, including attorneys' fees.

Subsequently, multiple related complaints were filed in the U.S. District Court for the District of Columbia alleging both federal antitrust and multiple state unfair competition, consumer protection and common law claims against Mastercard and Visa on behalf of putative classes of users of ATM services (the "ATM Consumer Complaints"). The claims in these actions largely mirror the allegations made in the ATM Operators Complaint, although these complaints seek damages on behalf of consumers of ATM services who pay allegedly inflated ATM fees at both bank and non-bank ATM operators as a result of the defendants' ATM rules. Plaintiffs seek both injunctive and monetary relief equal to treble the damages they claim to have sustained as a result of the alleged violations and their costs of suit, including attorneys' fees.

In January 2012, the plaintiffs in the ATM Operators Complaint and the ATM Consumer Complaints filed amended class action complaints that largely mirror their prior complaints. In February 2013, the district court granted Mastercard's motion to dismiss the complaints for failure to state a claim. On appeal, the Court of Appeals reversed the district court's order in August 2015 and sent the case back for further proceedings. In September 2019, the plaintiffs filed their motions for class certification in which the plaintiffs, in aggregate, allege over \$1 billion in damages against all of the defendants. Mastercard intends to vigorously defend against both the plaintiffs' liability and damages claims and has opposed class certification. Briefing on class certification is complete.

U.S. Liability Shift Litigation

In March 2016, a proposed U.S. merchant class action complaint was filed in federal court in California alleging that Mastercard, Visa, American Express and Discover (the "Network Defendants"), EMVCo and a number of issuing banks (the "Bank Defendants") engaged in a conspiracy to shift fraud liability for card present transactions from issuing banks to merchants not yet in compliance with the standards for EMV chip cards in the United States (the "EMV Liability Shift"), in violation of the Sherman Act and California law. Plaintiffs allege damages equal to the value of all chargebacks for which class members became liable as a result of the EMV Liability Shift on October 1, 2015. The plaintiffs seek treble damages, attorney's fees and costs and an injunction against future violations of governing law, and the defendants have filed a motion to dismiss. In September 2016, the district court denied the Network Defendants' motion to dismiss the complaint, but granted such a motion for EMVCo and the Bank Defendants. In May 2017, the district court transferred the case to New York so that discovery could be coordinated with the U.S. merchant class interchange litigation described above. In August 2020, the district court issued an order granting the plaintiffs' request for class certification. In January 2021, the Network Defendants' request for permission to appeal the district court's certification decision to the appellate court was denied. The case is proceeding with substantive expert discovery.

Telephone Consumer Protection Class Action

Mastercard is a defendant in a Telephone Consumer Protection Act ("TCPA") class action pending in Florida. The plaintiffs are individuals and businesses who allege that approximately 381,000 unsolicited faxes were sent to them advertising a Mastercard co-brand card issued by First Arkansas Bank ("FAB"). The TCPA provides for uncapped statutory damages of \$500 per fax. Mastercard has asserted various defenses to the claims, and has notified FAB of an indemnity claim that it has (which FAB has disputed). In June 2018, the district court granted Mastercard's motion to stay the proceedings until the Federal Communications Commission makes a decision on the application of the TCPA to online fax services. In December 2019, the FCC issued a declaratory ruling clarifying that the TCPA does not apply to faxes sent to online fax services that are received via e-mail. As a result of the ruling, the stay of the litigation was lifted in January 2020. In January 2021, the magistrate judge serving on the district court issued a decision recommending that the district court judge deny plaintiffs' class certification motion. The plaintiffs have the opportunity to file objections to this decision with the district court judge.

U.S. Federal Trade Commission Investigation

In June 2020, the U.S. Federal Trade Commission's Bureau of Competition ("FTC") informed Mastercard that it has initiated a formal investigation into compliance with the Durbin Amendment to the Dodd-Frank Wall Street Reform and Consumer Protection Act. In particular, the investigation focuses on Mastercard's compliance with the debit routing provisions of the Durbin Amendment. The FTC has issued a subpoena and Mastercard is cooperating with it in the investigation.

U.K. Prepaid Cards Matter

Mastercard is subject to an ongoing confidential legal matter related to prepaid cards in the U.K. This matter focuses exclusively on historic behavior, and has no prospective impact on Mastercard's on-going business. In connection with this matter, in the fourth quarter of 2020, Mastercard recorded a litigation charge of \$45 million.

Note 22. Settlement and Other Risk Management

Mastercard's rules guarantee the settlement of many of the transactions between its customers ("settlement risk"). Settlement exposure is the settlement risk to customers under Mastercard's rules due to the difference in timing between the payment transaction date and subsequent settlement. While the term and amount of the guarantee are unlimited, the duration of settlement exposure is short term and typically limited to a few days.

Gross settlement exposure is estimated using the average daily payment volume during the three months prior to period end multiplied by the estimated number of days of exposure. The Company has global risk management policies and procedures, which include risk standards, to provide a framework for managing the Company's settlement risk and exposure. In the event of a failed customer, Mastercard may pursue one or more remedies available under the Company's rules to recover potential losses. Historically, the Company has experienced a low level of losses from customer failures.

As part of its policies, Mastercard requires certain customers that are not in compliance with the Company's risk standards to post collateral, such as cash, letters of credit, guarantees, or other risk mitigating arrangements. This requirement is based on a review of the individual risk circumstances for each customer. Mastercard monitors its credit risk portfolio on a regular basis and the adequacy of collateral on hand. Additionally, from time to time, the Company reviews its risk management methodology and standards. As such, the amounts of estimated settlement exposure are revised as necessary.

The Company's estimated settlement exposure was as follows at December 31:

	2020		2019
	(in mi	lions)	
Gross settlement exposure	\$ 52,360	\$	55,800
Collateral applied to settlement exposure	(6,021)		(4,772)
Net uncollateralized settlement exposure	\$ 46,339	\$	51,028

Mastercard also provides guarantees to customers and certain other counterparties indemnifying them from losses stemming from failures of third parties to perform duties. This includes guarantees of Mastercard-branded travelers cheques issued, but not yet cashed of \$370 million and \$367 million at December 31, 2020 and 2019, respectively, of which \$294 million and \$290 million at December 31, 2020 and 2019, respectively, is mitigated by collateral arrangements. In addition, the Company enters into agreements in the ordinary course of business under which the Company agrees to indemnify third parties against damages, losses and expenses incurred in connection with legal and other proceedings arising from relationships or transactions with the Company. Certain indemnifications do not provide a stated maximum exposure. As the extent of the Company's obligations under these agreements depends entirely upon the occurrence of future events, the Company's potential future liability under these agreements

is not determinable. Historically, payments made by the Company under these types of contractual arrangements have not been material.

Note 23. Derivative and Hedging Instruments

The Company monitors and manages its foreign currency and interest rate exposures as part of its overall risk management program which focuses on the unpredictability of financial markets and seeks to reduce the potentially adverse effects that the volatility of these markets may have on its operating results. A primary objective of the Company's risk management strategies is to reduce the financial impact that may arise from volatility in foreign currency exchange rates principally through the use of both foreign exchange derivative contracts (Derivatives) and foreign currency denominated debt (Net Investment Hedge). In addition, the Company may enter into interest rate derivative contracts to manage the effects of interest rate movements on the Company's aggregate liability portfolio, including potential future debt issuances (Cash Flow Hedges).

Foreign Exchange Risk

Derivatives

The Company enters into foreign exchange derivative contracts to manage currency exposure associated with anticipated receipts and disbursements which are valued based on currencies other than the functional currency of the entity. The Company may also enter into foreign exchange derivative contracts to offset possible changes in value due to foreign exchange fluctuations of assets and liabilities. In addition, the Company is subject to foreign exchange risk as part of its daily settlement activities. This risk is typically limited to a few days between when a payment transaction takes place and the subsequent settlement with customers. To manage this risk, the Company enters into short duration foreign exchange derivative contracts based upon anticipated receipts and disbursements for the respective currency position. The objective of these activities is to reduce the Company's exposure to gains and losses resulting from fluctuations of foreign currencies against its functional currencies.

The Company's derivative contracts are summarized below:

		December 31, 2020			December 31, 2019			
	N	otional		Fair Value		Notional		Fair Value
		(in millions)						
Commitments to purchase foreign currency	\$	389	\$	17	\$	185	\$	3
Commitments to sell foreign currency		1,110		(26)		1,506		(25)
Options to sell foreign currency		_		_		21		2
Balance sheet location								
Prepaid expenses and other current assets ¹			\$	19			\$	12
Other current liabilities ¹				(28)				(32)

¹ The derivative contracts are subject to enforceable master netting arrangements, which contain various netting and setoff provisions.

The amount of gain (loss) recognized on the consolidated statement of operations for the contracts to purchase and sell foreign currency is summarized below:

		Year Ended December 31,						
	2	2020		2019	2018			
		(in millions)						
ative contracts								
tive	\$	40	\$	(39)	\$	53		

The fair value of the foreign exchange derivative contracts generally reflects the estimated amounts that the Company would receive (or pay), on a pre-tax basis, to terminate the contracts. The terms of the foreign exchange derivative contracts are generally less than 18 months. The Company had no deferred gains or losses related to foreign exchange contracts in accumulated other comprehensive income as of December 31, 2020 and 2019, as these contracts were not designated as hedging instruments for accounting.

The Company's derivative financial instruments are subject to both market and counterparty credit risk. Market risk is the potential for economic losses to be incurred on market risk sensitive instruments arising from adverse changes in market factors such as

foreign currency exchange rates, interest rates and other related variables. Counterparty credit risk is the risk of loss due to failure of the counterparty to perform its obligations in accordance with contractual terms. To mitigate counterparty credit risk, the Company enters into derivative contracts with a diversified group of selected financial institutions based upon their credit ratings and other factors. Generally, the Company does not obtain collateral related to derivatives because of the high credit ratings of the counterparties.

Net Investment Hedge

The Company uses foreign currency denominated debt to hedge a portion of its net investment in foreign operations against adverse movements in exchange rates, with changes in the value of the debt recorded within currency translation adjustment in accumulated other comprehensive income (loss). In 2015, the Company designated its €1.65 billion euro-denominated debt as a net investment hedge for a portion of its net investment in European operations. As of December 31, 2020, the Company had a net foreign currency transaction loss of \$175 million after tax, in accumulated other comprehensive income (loss) associated with hedging activity.

Interest Rate Risk

Cash Flow Hedges

During the fourth quarter of 2019, the Company entered into treasury rate locks for a total notional amount of \$1 billion, which were accounted for as cash flow hedges. These contracts were entered into to hedge a portion of the Company's interest rate exposure attributable to changes in the treasury rates related to the forecasted debt issuance during 2020. The maximum length of time over which the Company had hedged its exposure was 30 years. In connection with the issuance of the 2020 USD Notes, these contracts were settled and the Company paid \$175 million. As of December 31, 2020, a cumulative loss of \$133 million, after tax, was recorded in accumulated other comprehensive income (loss) associated with these contracts and will be reclassified as an adjustment to interest expense over the respective terms of the 2020 USD Notes. As of December 31, 2019, the Company recorded a pre-tax net unrealized gain of \$14 million, after tax) in accumulated other comprehensive income (loss) associated with these contracts.

In 2020, the Company reclassified \$4 million, pre-tax, of the deferred loss on cash flow derivative contracts recorded in accumulated other comprehensive income (loss) to interest expense on the statement of operations. The Company estimates that \$6 million, pre-tax, of the deferred loss will be reclassified into interest expense within the next 12 months.

Note 24. Segment Reporting

Mastercard has concluded it has one reportable operating segment, "Payment Solutions." Mastercard's Chief Executive Officer has been identified as the chief operating decision-maker. All of the Company's activities are interrelated, and each activity is dependent upon and supportive of the other. Accordingly, all significant operating decisions are based upon analysis of Mastercard at the consolidated level.

Revenue by geographic market is based on the location of the Company's customer that issued the card, as well as the location of the merchant acquirer where the card is being used. Revenue generated in the U.S. was approximately 33% of total revenue in 2020, 32% in 2019 and 33% in 2018. No individual country, other than the U.S., generated more than 10% of total revenue in those periods. Mastercard did not have any individual customer that generated greater than 10% of net revenue in 2020, 2019 or 2018.

The following table reflects the geographical location of the Company's property, equipment and right-of-use assets, net, as of December 31:

	2020		2019		2018	
	(in millions)					
\$	1,185	\$	1,147	\$	613	
	717		681		308	
\$	1,902	\$	1,828	\$	921	

Item 9. Changes in and disagreements with accountants on accounting and financial disclosure

Not applicable.

Item 9A. Controls and procedures

Evaluation of Disclosure Controls and Procedures

Our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the "Exchange Act") are designed to ensure that information required to be disclosed 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 rules and forms of the Securities and Exchange Commission and to ensure that information required to be disclosed is accumulated and communicated to management, including our President and Chief Executive Officer and our Chief Financial Officer, to allow timely decisions regarding disclosure. The President and Chief Executive Officer and the Chief Financial Officer, with assistance from other members of management, have reviewed the effectiveness of our disclosure controls and procedures as of December 31, 2020 and, based on their evaluation, have concluded that the disclosure controls and procedures were effective as of such date.

Internal Control over Financial Reporting

In addition, Mastercard Incorporated's management assessed the effectiveness of Mastercard's internal control over financial reporting as of December 31, 2020. Management's report on internal control over financial reporting is included in Part II, Item 8. PricewaterhouseCoopers LLP, an independent registered public accounting firm, has audited the consolidated financial statements included in this Annual Report on Form 10-K and, as part of their audit, has issued their report, included herein, on the effectiveness of our internal control over financial reporting.

Changes in Internal Control over Financial Reporting

There was no change in Mastercard's internal control over financial reporting that occurred during the three months ended December 31, 2020 that has materially affected, or is reasonably likely to materially affect, Mastercard's internal control over financial reporting.

Item 9B. Other Information

Pursuant to Section 219 of the Iran Threat Reduction and Syria Human Rights Act of 2012, we hereby incorporate by reference herein the disclosure contained in Exhibit 99.1 of this Report.

PART III

Item 10. Directors, executive officers and corporate governance

Item 11. Executive compensation

Item 12. Security ownership of certain beneficial owners and management and related stockholder matters

Item 13. Certain relationships and related transactions, and director independence

Item 14. Principal accountant fees and services

Item 10. Directors, executive officers and corporate governance

Information regarding our executive officers is included in section "Information about our executive officers" in Part I of this Report. Additional information required by this Item with respect to our directors and executive officers, code of ethics, procedures for recommending nominees, audit committee, audit committee financial experts and compliance with Section 16(a) of the Exchange Act will appear in our definitive proxy statement to be filed with the SEC and delivered to stockholders in connection with our 2021 annual meeting of stockholders (the "Proxy Statement").

The aforementioned information in the Proxy Statement is incorporated by reference into this Report.

Item 11. Executive compensation

The information required by this Item with respect to executive officer and director compensation will appear in the Proxy Statement and is incorporated by reference into this Report.

Item 12. Security ownership of certain beneficial owners and management and related stockholder matters

The information required by this Item with respect to security ownership of certain beneficial owners and management equity and compensation plans will appear in the Proxy Statement and is incorporated by reference into this Report.

Item 13. Certain relationships and related transactions, and director independence

The information required by this Item with respect to transactions with related persons, the review, approval or ratification of such transactions and director independence will appear in the Proxy Statement and is incorporated by reference into this Report.

Item 14. Principal accountant fees and services

The information required by this Item with respect to auditors' services and fees will appear in the Proxy Statement and is incorporated by reference into this Report.

PART IV

Item 15. Exhibits and financial statement schedules Item 16. Form 10-K summary

Item 15. Exhibits and financial statement schedules

- (a) The following documents are filed as part of this Report:
 - 1 Consolidated Financial Statements

See Index to Consolidated Financial Statements in Part II, Item 8.

- 2 Consolidated Financial Statement Schedules None.
- 3 The following exhibits are filed as part of this Report or, where indicated, were previously filed and are hereby incorporated by reference: Refer to the Exhibit Index included herein.

Item 16. Form 10-K summary

None.

MASTERCARD 2020 FORM 10-K 109

Exhibit index

Exhibit number	Exhibit Description		
3.1	Amended and Restated Certificate of Incorporation of Mastercard Incorporated (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed September 29, 2016 (File No. 001-32877)).		
3.2	Amended and Restated By-Laws of Mastercard Incorporated (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed April 21, 2020 (File No. 001-32877)).		
4.1	Indenture, dated as of March 31, 2014, between the Company and Deutsche Bank Trust Company Americas, as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 31, 2014 (File No. 001-32877)).		
4.2	Officer's Certificate of the Company, dated as of March 31, 2014 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K filed on March 31, 2014 (File No. 001-32877)).		
4.3	Form of Global Note representing the Company's 2.000% Notes due 2019 (included in Officer's Certificate of the Company, dated as of March 31, 2014) (incorporated by reference to Exhibit 4.3 of the Company's Current Report on Form 8-K filed on March 31, 2014 (File No. 001-32877)).		
4.4	Form of Global Note representing the Company's 3.375% Notes due 2024 (included in Officer's Certificate of the Company, dated as of March 31, 2014) (incorporated by reference to Exhibit 4.4 of the Company's Current Report on Form 8-K filed on March 31, 2014 (File No. 001-32877)).		
4.5	Officer's Certificate of the Company, dated as of December 1, 2015 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 1, 2015 (File No. 001-32877)).		
4.6	Form of Global Note representing the Company's 1.100% Notes due 2022 (included in Officer's Certificate of the Company, dated as of December 1, 2015) (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K filed on December 1, 2015 (File No. 001-32877)).		
4.7	Form of Global Note representing the Company's 2.100% Notes due 2027 (included in Officer's Certificate of the Company, dated as of December 1, 2015) (incorporated by reference to Exhibit 4.3 of the Company's Current Report on Form 8-K filed on December 1, 2015 (File No. 001-32877)).		
4.8	Form of Global Note representing the Company's 2.500% Notes due 2030 (included in Officer's Certificate of the Company, dated as of December 1, 2015) (incorporated by reference to Exhibit 4.4 of the Company's Current Report on Form 8-K filed on December 1, 2015 (File No. 001-32877)).		
4.9	Officer's Certificate of the Company, dated as of November 21, 2016 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on November 21, 2016 (File No. 001-32877)).		
4.10	Form of Global Note representing the Company's 2.000% Notes due 2021 (included in Officer's Certificate of the Company, dated as of November 21, 2016) (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K filed on November 21, 2016 (File No. 001-32877)).		
4.11	Form of Global Note representing the Company's 2.950% Notes due 2026 (included in Officer's Certificate of the Company, dated as of November 21, 2016) (incorporated by reference to Exhibit 4.3 of the Company's Current Report on Form 8-K filed on November 21, 2016 (File No. 001-32877)).		
4.12	Form of Global Note representing the Company's 3.800% Notes due 2046 (included in Officer's Certificate of the Company, dated as of November 21, 2016) (incorporated by reference to Exhibit 4.4 of the Company's Current Report on Form 8-K filed on November 21, 2016 (File No. 001-32877)).		
4.13	Officer's Certificate of the Company, dated as of February 26, 2018 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on February 26, 2018 (File No. 001-32877)).		
4.14	Form of Global Note representing the Company's 3.5% Notes due 2028 (included in Officer's Certificate of the Company, dated as of February 26, 2018) (incorporated by reference to Exhibit 4.1 of the of the Company's Current Report on Form 8-K filed on February 26, 2018 (File No. 001-32877)).		
4.15	Form of Global Note representing the Company's 3.95% Notes due 2048 (included in Officer's Certificate of the Company, dated as of February 26, 2018) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on February 26, 2018 (File No. 001-32877)).		
4.16	Officer's Certificate of the Company, dated as of May 31, 2019 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on May 31, 2019 (File No. 001-32877)).		
4.17	Form of Global Note representing the Company's 2.950% Notes due 2029 (included in Officer's Certificate of the Company, dated as of May 31, 2019) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on May 31, 2019 (File No. 001-32877)).		
4.18	Form of Global Note representing the Company's 3.650% Notes due 2049 (included in Officer's Certificate of the Company, dated as of May 3: 2019) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on May 31, 2019 (File No. 001-32877)).		
4.19	Officer's Certificate of the Company, dated as of December 3, 2019 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 3, 2019 (File No. 001-32877)).		
4.20	Form of Global Note representing the Company's 2.000% Notes due 2025 (included in Officer's Certificate of the Company, dated as of December 3, 2019) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 3, 2019 (File No. 001-32877)).		
4.21	Officer's Certificate of the Company, dated as of March 26, 2020 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).		
4.22	Form of Global Note representing the Company's 3.300% Notes due 2027 (included in Officer's Certificate of the Company, dated as of March 26, 2020) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).		
4.23	Form of Global Note representing the Company's 3.350% Notes due 2030 (included in Officer's Certificate of the Company, dated as of March 26, 2020) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).		

4.24	Form of Global Note representing the Company's 3.850% Notes due 2050 (included in Officer's Certificate of the Company, dated as of March 2 2020) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).		
4.25*	Description of Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934.		
10.1	\$6,000,000,000 Amended and Restated Credit Agreement, dated as of November 14, 2019, among Mastercard Incorporated, the several lende and agents from time to time party thereto, Citibank, N.A., as managing administrative agent and JPMorgan Chase Bank, N.A. as administrati agent (incorporated by reference to Exhibit 10.1 to the Company's Annual Report on Form 10-K filed February 14, 2020 (File No. 001-32877)).		
10.2+	Employment Agreement between Mastercard International Incorporated and Ajaypal Banga, dated as of July 1, 2010 (incorporated by referen to Exhibit 10.1 to the Company's Current Report on Form 8-K filed July 8, 2010 (File No. 001-32877)).		
10.2.1+*	Employment Letter Agreement between Mastercard International Incorporated and Ajaypal Banga, dated as of December 31, 2020.		
10.3+	Employment Agreement between Martina Hund-Mejean and Mastercard International, amended and restated as of December 24, 202 (incorporated by reference to Exhibit 10.5 to the Company's Annual Report on Form 10-K filed February 14, 2013 (File No. 001-32877)).		
10.3.1+	Amendment to Amended and Restated Employment Agreement between Martina Hund-Mejean and Mastercard International, dated as of December 21, 2017 (incorporated by reference to Exhibit 10.3.1 to the Company's Annual Report on Form 10-K filed February 14, 2018 (File No. 001-32877)).		
10.4+	Contract of Employment between Mastercard UK Management Services Limited and Ann Cairns, amended and restated as of April 5, 2018 (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed May 2, 2018 (File No. 001-32877)).		
10.4.1+	Deed of Employment between Mastercard UK Management Services Limited and Ann Cairns, dated July 6, 2011 (incorporated by reference Exhibit 10.8.2 to the Company's Annual Report on Form 10-K filed February 16, 2012 (File No. 001-32877)).		
10.5+	Description of Employment Arrangement with Craig Vosburg (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report of Form 10-Q filed May 2, 2018 (File No. 001-32877)).		
10.6+	Description of Employment Arrangement with Gilberto Caldart (incorporated by reference to Exhibit 10.4 to the Company's Quarterly Report Form 10-Q filed April 30, 2019 (File No. 001-32877)).		
10.7+	Description of Employment Arrangement with Tim Murphy (incorporated by reference to Exhibit 10.5 to the Company's Quarterly Report of Form 10-Q filed April 30, 2019 (File No. 001-32877)).		
10.8+	Description of Employment Arrangement with Michael Froman (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report of Form 10-Q filed April 29, 2020 (File No. 001-32877)).		
10.9+	Description of Employment Arrangement with Sachin Mehra (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report of Form 10-Q filed April 29, 2020 (File No. 001-32877)).		
10.10+	Description of Employment Arrangement with Michael Miebach (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report of Form 10-Q filed April 29, 2020 (File No. 001-32877)).		
10.11+*	Mastercard International Senior Executive Annual Incentive Compensation Plan, as amended and restated effective February 4, 2019.		
10.12+	Mastercard International Incorporated Restoration Program, as amended and restated January 1, 2007 unless otherwise provided (incorporate by reference to Exhibit 10.22 to the Company's Annual Report on Form 10-K filed February 19, 2009 (File No. 001-32877)).		
10.13+	Mastercard Incorporated Deferral Plan, as amended and restated effective December 1, 2008 for account balances established after Decemb 31, 2004 (incorporated by reference to Exhibit 10.25 to the Company's Annual Report on Form 10-K filed February 19, 2009 (File No. 001-32877		
10.14+	Mastercard Incorporated 2006 Long Term Incentive Plan, amended and restated effective June 5, 2012 (incorporated by reference to Exhibit 10. to the Company's Quarterly Report on Form 10-Q filed August 1, 2012 (File No. 001-32877)).		
10.15+	Form of Restricted Stock Unit Agreement for awards under 2006 Long Term Incentive Plan (effective for awards granted on and subsequent March 1, 2019) (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed April 30, 2019 (File No. 00 32877)).		
10.16+	Form of Stock Option Agreement for awards under 2006 Long Term Incentive Plan (effective for awards granted on and subsequent to March 2019) (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed April 30, 2019 (File No. 001-32877)).		
10.17+	Form of Performance Stock Unit Agreement for awards under 2006 Long Term Incentive Plan (effective for awards granted on and subsequent March 1, 2019) (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed April 30, 2019 (File No. 00 32877)).		
10.18+	Form of Mastercard Incorporated Long Term Incentive Plan Non-Competition and Non-Solicitation Agreement for named executive office (incorporated by reference to Exhibit 10.17 to the Company's Annual Report on Form 10-K filed February 16, 2012 (File No. 001-32877)).		
10.19+	Amended and Restated Mastercard International Incorporated Executive Severance Plan, amended and restated as of April 10, 20 (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed May 2, 2018 (File No. 001-32877)).		
10.20+	Amended and Restated Mastercard International Incorporated Change in Control Severance Plan, amended and restated as of June 25, 2019 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed July 26, 2018 (File No. 001-32877)).		
10.21	Schedule of Non-Employee Directors' Annual Compensation effective as of June 25, 2019 (incorporated by reference to Exhibit 10.1 to t Company's Quarterly Report on Form 10-Q filed July 30, 2019 (File No. 001-32877)).		
10.22	2006 Non-Employee Director Equity Compensation Plan, amended and restated effective as of June 26, 2018 (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed July 26, 2018 (File No. 001-32877)).		
10.23	Form of Deferred Stock Unit Agreement for awards under 2006 Non-Employee Director Equity Compensation Plan, amended and restated effective June 26, 2018 (effective for awards granted on and subsequent to June 25, 2019) (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed July 30, 2019 (File No. 001-32877)).		
10.24	Form of Restricted Stock Agreement for awards under 2006 Non-Employee Director Equity Compensation Plan, amended and restated effectid June 26, 2018 (effective for awards granted on and subsequent to June 25, 2019) (incorporated by reference to Exhibit 10.3 to the Company Quarterly Report on Form 10-Q filed July 30, 2019 (File No. 001-32877)).		

	10.3 to the Company's Quarterly Report on Form 10-Q filed May 2, 2006 (File No. 000-50250)).		
10.27	Deed of Gift between Mastercard Incorporated and Mastercard Foundation (incorporated by reference to Exhibit 10.28 to Pre-Effect Amendment No. 5 to the Company's Registration Statement on Form S-1 filed May 3, 2006 (File No. 333-128337)).		
10.28	Settlement Agreement, dated as of June 4, 2003, between Mastercard International Incorporated and Plaintiffs in the class action litigat entitled In Re Visa Check/MasterMoney Antitrust Litigation (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report Form 10-Q filed August 8, 2003 (File No. 000-50250)).		
10.29	Stipulation and Agreement of Settlement, dated July 20, 2006, between Mastercard Incorporated, the several defendants and the plaintiffs in th consolidated federal class action lawsuit titled In re Foreign Currency Conversion Fee Antitrust Litigation (MDL 1409), and the California stat court action titled Schwartz v. Visa Int'l Corp., et al. (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-6 filed November 1, 2006 (File No. 001-32877)).		
10.30	Omnibus Agreement Regarding Interchange Litigation Judgment Sharing and Settlement Sharing, dated as of February 7, 2011, by and amon Mastercard Incorporated, Mastercard International Incorporated, Visa Inc., Visa U.S.A. Inc., Visa International Service Association an Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.33 to Amendment No.1 to the Company's Annua Report on Form 10-K/A filed on November 23, 2011).		
10.30.1	Amendment to Omnibus Agreement Regarding Interchange Litigation Judgment Sharing and Settlement Sharing, dated as of August 25, 2014, b and among Mastercard Incorporated, Mastercard International Incorporated, Visa Inc., Visa U.S.A Inc., Visa International Service Association and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10 Q filed October 30, 2014 (File No. 001-32877)).		
10.30.2	Second Amendment to Omnibus Agreement Regarding Interchange Litigation Judgment Sharing and Settlement Sharing, dated as of October 22 2015, by and among Mastercard Incorporated, Mastercard International Incorporated, Visa Inc., Visa U.S.A Inc., Visa International Service Association and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed October 29, 2015 (File No. 001-32877)).		
10.31**	Mastercard Settlement and Judgment Sharing Agreement, dated as of February 7, 2011, by and among Mastercard Incorporated, Masterc International Incorporated and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.34 to Amendme No.1 to the Company's Annual Report on Form 10-K/A filed on November 23, 2011).		
10.31.1	Amendment to Mastercard Settlement and Judgment Sharing Agreement, dated as of August 26, 2014, by and among Mastercard Incorporated Mastercard International Incorporated and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed October 30, 2014 (File No. 001-32877)).		
10.31.2	Second Amendment to Mastercard Settlement and Judgment Sharing Agreement, dated as of October 22, 2015, by and among Masterca Incorporated, Mastercard International Incorporated and Mastercard's customer banks that are parties thereto (incorporated by reference 5 Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed October 29, 2015 (File No. 001-32877)).		
10.32	Superseding and Amended Class Settlement Agreement, dated September 17, 2018, by and among Mastercard Incorporated and Mastercard International Incorporated; Visa, Inc., Visa U.S.A. Inc. and Visa International Service Association; the Class Plaintiffs defined therein; and the Customer Banks defined therein (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed September 18, 2018 (File No. 001-32877)).		
21*	List of Subsidiaries of Mastercard Incorporated.		
23.1*	Consent of PricewaterhouseCoopers LLP.		
31.1*	Certification of Michael Miebach, President and Chief Executive Officer, pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.		
31.2*	Certification of Sachin Mehra, Chief Financial Officer, pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the Sarbane: Oxley Act of 2002.		
32.1*	Certification of Michael Miebach, President and Chief Executive Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.		
32.2*	Certification of Sachin Mehra, Chief Financial Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes Oxley Act of 2002.		
99.1*	Disclosure pursuant to Section 219 of the Iran Threat Reduction and Syria Human Rights Act of 2012.		
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*	XBRL Taxonomy Extension Schema Document		
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document		
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document		
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document		
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document		

+ Management contracts or compensatory plans or arrangements.

* Filed or furnished herewith.

** Exhibit omits certain information that has been filed separately with the U.S. Securities and Exchange Commission and has been granted confidential treatment.

The agreements and other documents filed as exhibits to this report are not intended to provide factual information or other disclosure other than with respect to the terms of the agreements or other documents themselves, and should not be relied upon for that purpose. In particular, any representations and warranties made by the Company in these agreements or other documents were made solely within the specific context of the relevant agreement or document and may not describe the actual state of affairs as of the date they were made or at any other time.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Annual Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

			MASTERCARD INCORPORATED
			(Registrant)
Date:	February 12, 2021	Ву:	/s/ MICHAEL MIEBACH
			Michael Miebach
			President and Chief Executive Officer
			(Principal Executive Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated:

Date:	February 12, 2021	Ву:	/s/ MICHAEL MIEBACH Michael Miebach President and Chief Executive Officer; Director (Principal Executive Officer)
Date:	February 12, 2021	Ву:	/s/ SACHIN MEHRA Sachin Mehra Chief Financial Officer (Principal Financial Officer)
Date:	February 12, 2021	Ву:	/s/ SANDRA ARKELL Sandra Arkell Corporate Controller (Principal Accounting Officer)
Date:	February 12, 2021	Ву:	/s/ AJAY BANGA Ajay Banga Executive Chairman; Director
Date:	February 12, 2021	Ву:	/s/ RICHARD K. DAVIS Richard K. Davis Director
Date:	February 12, 2021	Ву:	/s/ STEVEN J. FREIBERG Steven J. Freiberg Director
Date:	February 12, 2021	Ву:	/s/ JULIUS GENACHOWSKI Julius Genachowski Director
Date:	February 12, 2021	Ву:	/s/ CHOON PHONG GOH Choon Phong Goh Director
Date:	February 12, 2021	Ву:	/s/ MERIT E. JANOW Merit E. Janow Lead Independent Director
Date:	February 12, 2021	Ву:	/s/ OKI MATSUMOTO Oki Matsumoto Director
Date:	February 12, 2021	Ву:	/s/ YOUNGME MOON

Youngme Moon Director

Date:	February 12, 2021	Ву:	/s/ RIMA QURESHI Rima Qureshi Director
Date:	February 12, 2021	Ву:	/s/ JOSÉ OCTAVIO REYES LAGUNES José Octavio Reyes Lagunes
Date:	February 12, 2021	Ву:	Director /s/ GABRIELLE SULZBERGER Gabrielle Sulzberger
Date:	February 12, 2021	Ву:	Director /s/ JACKSON TAI Jackson Tai
Date:	February 12, 2021	Ву:	Director /s/ LANCE UGGLA Lance Uggla Director

111 MASTERCARD 2020 FORM 10-K

DESCRIPTION OF SECURITIES REGISTERED PURSUANT TO SECTION 12 OF THE SECURITIES EXCHANGE ACT OF 1934

The following summary describes the securities of Mastercard Incorporated ("Mastercard") registered pursuant to Section 12 of the Securities Exchange Act of 1934, as amended.

DESCRIPTION OF COMMON STOCK

The following description of our common stock is a summary and is qualified in its entirety by reference to our amended and restated certificate of incorporation and amended and restated bylaws, which are incorporated by reference as exhibits to this Annual Report on Form 10-K, and by applicable law. For purposes of this description, references to "Mastercard," "we," "our" and "us" refer only to Mastercard and not to its subsidiaries.

Authorized Capitalization

Our authorized capital stock consists of 3,000,000,000 shares of Class A common stock, par value \$.0001 per share, 1,200,000,000 shares of Class B common stock, par value \$.0001 per share, and 300,000,000 shares of preferred stock, par value \$.0001 per share.

Common Stock

Voting Rights. Each share of Class A common stock entitles its holder to one vote per share.

Except as may be required by Delaware law, holders of Class B common stock are not entitled to vote and have no voting power.

Dividend Rights. Our Class A common stock and Class B common stock share equally (on a per share basis) in any dividend declared by our board of directors, subject to any preferential or other rights of any outstanding preferred stock and to the distinction that any stock dividends will be paid in shares of Class A common stock to the holders of our Class A common stock and in shares of Class B common stock to the holders of our Class B common stock.

Liquidation Rights. Upon liquidation, dissolution or winding up, our Class A common stock and Class B common stock will be entitled to receive ratably the assets available for distribution to the stockholders after payment of liabilities and payment of preferential and other amounts, if any, payable on any outstanding preferred stock.

Conversion Right of Class B Common Stock. Subject to the provisions of our amended and restated certificate of incorporation that prohibit our members and former members, and any person that is an operator, member or licensee of any competing general purpose payment card system, and any affiliate of any such person, from beneficially owning any share of Class A common stock or of any other class of our stock with general voting power, each share of Class B common stock will be convertible, at the holder's option, into a share of Class A common stock on a one-for-one basis.

Beneficial Ownership Limitations.

Class A Common Stock and Other Voting Stock. Subject to limited exceptions, our amended and restated certificate of incorporation prohibits any person from beneficially owning (a) shares of Class A common stock representing more than 15% of the aggregate outstanding shares or voting power of Class A common stock, (b) shares of any other class or series of our stock entitled to vote generally in the election of directors ("other voting stock") representing more than 15% of the aggregate outstanding shares or voting power of such class or series, or (c) shares of Class A common stock and/or other voting stock representing more than 15% of the aggregate voting power of all our then outstanding shares of stock entitled to vote at an election of directors, voting as a single class. In addition, no member or former member of Mastercard International Incorporated ("Mastercard International") or person that is an operator, member or licensee of any competing general purpose payment card system, or any affiliate of any such person, may beneficially own any share of Class A common stock or of other voting stock, except during a transitory period no longer than 30 days following a permitted conversion of shares of Class B common stock into shares of Class A common stock. Members of Mastercard International are not permitted to vote any shares of Class A common stock beneficially owned by them.

Any attempted transfer of Class A common stock or other voting stock which, if effective, would result in violation of the ownership limits discussed above, will cause the number of shares causing the violation (rounded to the next highest whole share) to be automatically transferred to a trust for the exclusive benefit of one or more charitable beneficiaries. The

automatic transfer will be deemed to be effective as of the close of business on the business day prior to the date of the transfer. Shares of Class A common stock or other voting stock held in the trust will be issued and outstanding shares.

The Prohibited Owner (as defined in Mastercard's amended and restated certificate of incorporation) with respect to such purported transfer will not benefit economically from ownership of any shares of Class A common stock or other voting stock held in the trust, will have no rights to dividends or other distributions and no rights to vote or other rights attributable to the shares of Class A common stock or other voting stock held in the trust. The trustee of the trust will have all voting rights and rights to dividends or other distributions with respect to shares of Class A common stock or other voting stock held in the trust. The trustee of the trust will have all voting rights and rights to dividends or other distributions with respect to shares of Class A common stock or other voting stock held in the trust. These rights will be exercised for the exclusive benefit of the charitable beneficiary.

Any dividend or other distribution paid prior to Mastercard's discovery that shares of Class A common stock or other voting stock have been transferred to the trust has to be paid by the recipient to the trustee upon demand. Any dividend or other distribution authorized but unpaid will be paid when due to the trustee. Any dividend or distribution paid to the trustee will be held in trust for the charitable beneficiary. Subject to applicable law, the trustee will have the authority (1) to rescind as void any vote cast by the Prohibited Owner prior to Mastercard's discovery that the shares have been transferred to the trust and (2) to recast the vote in accordance with the desires of the trustee acting for the benefit of the charitable beneficiary. However, if Mastercard has already taken corporate action, then the trustee will not have the authority to rescind and recast the vote.

Within 20 days of receiving notice from Mastercard that shares of its stock have been transferred to the trust, the trustee must sell the shares to a person designated by the trustee, whose ownership of the shares will not violate the above ownership limitations. Upon the sale, the interest of the charitable beneficiary in the shares sold will terminate, and the trustee will distribute the net proceeds of the sale to the Prohibited Owner and to the charitable beneficiary as follows. The Prohibited Owner will receive the lesser of (1) the price paid by the Prohibited Owner for the shares or, if the Prohibited Owner did not give value for the shares in connection with the event causing the shares to be held in the trust (e.g., a gift, devise or other similar transaction), the Market Price (as defined in Mastercard's certificate of incorporation) of the shares on the day of the event causing the shares to be held in the trust and (2) the price received by the trustee from the sale or other disposition of the shares. Any net sale proceeds in excess of the amount payable to the Prohibited Owner will be paid immediately to the charitable beneficiary. If, prior to Mastercard's discovery that shares of its stock have been transferred to the trust, the shares are sold by the Prohibited Owner, then (1) the shares shall be deemed to have been sold on behalf of the trust and (2) to the extent that the Prohibited Owner received an amount for the shares that exceeds the amount he was entitled to receive, the excess shall be paid to the trustee upon demand.

In addition, shares of Class A common stock or other voting stock held in the trust transferred to the trustee may be redeemed by Mastercard, or its designee, at a price per share equal to the lesser of (1) the price per share in the transaction that resulted in such transfer to the trust (or, in the case of a devise, gift or other such transaction, the Market Price at the time of such devise or gift or other such transaction) and (2) the Market Price on the date Mastercard, or its designee, elects to redeem such shares. Mastercard may reduce the amount payable to the Prohibited Owner by the amount of dividends and distributions which has been paid to the Prohibited Owner and are owed by the Prohibited Owner to the trustee. Mastercard may pay the amount of such reduction to the trustee for the benefit of the charitable beneficiary. Mastercard shall have the right to redeem such shares until the trustee has sold the shares held in the trust. Upon such a redemption, the interest of the charitable beneficiary in the shares shall terminate and the trustee shall distribute the net proceeds of the redemption to the Prohibited Owner. Except as described above, shares of Class A common stock are not redeemable.

Class B Common Stock. Shares of Class B common stock may be held only by either principal members of Mastercard International, which participate directly in Mastercard International's business, or affiliate members of Mastercard International, which participate indirectly in Mastercard International's business through a principal member (collectively, "members"), by Mastercard, or a subsidiary of Mastercard, or by Mastercard's directors, officers or employees. Any transfer that would result in a violation of this ownership limitation will be void. Mastercard, or its designee, may redeem any shares of Class B common stock held by a person prohibited from holding such shares.

Other Matters. Holders of our common stock do not have preemptive or subscription rights.

DESCRIPTION OF NOTES

The following description is a summary of the terms of the following notes:

- 1.100% Notes due 2022 (the "2022 Notes")
- 2.100% Notes due 2027 (the "2027 Notes")
- 2.500% Notes due 2030 (the "2030 Notes")

(collectively, the "Notes").

The following description of the Notes is a summary and is qualified in its entirety by reference to the indenture pursuant to which the Notes were issued, as supplemented, which is incorporated by reference as an exhibit to this Annual Report on From 10-K, and by applicable law. Wherever particular articles, sections or defined terms of the indenture are referred to, it is intended that those articles, sections or defined terms will be incorporated herein by reference, and the statement in connection with which reference is made is qualified in its entirety by the article, section or defined term in the indenture. For purposes of this description, references to "Mastercard," "we," "our" and "us" refer only to Mastercard and not to its subsidiaries.

General

The 2022 Notes will mature on December 1, 2022, the 2027 Notes will mature on December 1, 2027 and the 2030 Notes will mature on December 1, 2030. The 2022 Notes bear interest at 1.100% per annum, the 2027 Notes bear interest at 2.100% per annum and the 2030 Notes bear interest at 2.500% per annum. We pay interest on the Notes annually in arrears on December 1 of each year, beginning on December 1, 2016, to the record holders at the close of business on the preceding November 15 (whether or not such record date is a Business Day (as defined below)). Interest on the Notes is computed on the basis of the actual number of days in the period for which interest is being calculated and the actual number of days from and including the last date on which interest was paid on the Notes (or December 1, 2015 if no interest has been paid on the Notes), to but excluding the next scheduled interest payment date. This payment convention is referred to as ACTUAL/ACTUAL (ICMA) as defined in the rulebook of the International Capital Market Association.

"Business Day" means any day:

- that is not Saturday or Sunday or any other day on which banking institutions are authorized or required by law, regulation or executive order to close in the City of New York or London; and
- that is a day on which the Trans-European Automated Real-time Gross Settlement Express Transfer System (the TARGET2 system), or any successor thereto, operates.

The Notes are represented by one or more global securities. Each global security will be deposited with, or on behalf of, a common depositary, and registered in the name of the nominee of the common depositary for the accounts of Clearstream and Euroclear.

Payment on the Notes

All payments of principal of, the redemption price (if any), and interest and Additional Amounts (if any), on the Notes, are payable in euro. However, if on or after the date of the issuance of the Notes, the euro is unavailable to us due to the imposition of exchange controls or other circumstances beyond our control, or if the euro is no longer being used by the then member states of the European Monetary Union that have adopted the euro as their currency or for the settlement of transactions by public institutions of or within the international banking community, all payments in respect of the Notes will be made in U.S. dollars until the euro is again available to us or so used. In that event, the amount payable on any date in euro will be converted into U.S. dollars at the rate mandated by the U.S. Federal Reserve Board as of the close of business on the second Business Day prior to the relevant payment date or, if the U.S. Federal Reserve Board has not mandated a rate of conversion, on the basis of the most recent U.S. dollar/euro exchange rate published in The Wall Street Journal on or prior to the second Business Day prior to the relevant payment date, or if The Wall Street Journal has not published such exchange rate, such rate as determined in our sole discretion on the basis of the most recent U.S. dollar/euro market exchange rate available on or prior to the second Business Day prior to the relevant payment date. Any payment in respect of the Notes so made in U.S. dollars will not constitute an event of default under the Notes or the indenture governing the Notes. Neither the trustee nor any paying agent shall have any responsibility for any calculation or conversion in connection with the foregoing.

Optional Redemption

Prior to September 1, 2022 in the case of the 2022 Notes (three months prior to the maturity date of the 2022 Notes), September 1, 2027 in the case of the 2027 Notes (three months prior to the maturity date of the 2027 Notes) and September 1, 2030 in the case of the 2030 Notes (three months prior to the maturity date of the 2022 Notes), we may redeem each of the 2022 Notes, 2027 Notes and 2030 Notes at our option, at any time in whole or from time to time in part, at a redemption price equal to the greater of:

- 100% of the principal amount of the Notes to be redeemed; or
- the sum of the present values of the remaining scheduled payments of principal and interest on the Notes to be redeemed (exclusive of interest accrued to the date of redemption) discounted to the date of redemption on an annual basis (ACTUAL/ACTUAL (ICMA)) at a rate equal to the applicable Bund Rate (as defined below), plus 20 basis

points in the case of the 2022 Notes, plus 25 basis points in the case of the 2027 Notes and plus 30 basis points in the case of the 2030 Notes.

In each case, we will pay accrued and unpaid interest on the principal amount being redeemed to the date of redemption.

On or after September 1, 2022 in the case of the 2022 Notes (three months prior to the maturity date of the 2022 Notes), September 1, 2027 in the case of the 2027 Notes (three months prior to the maturity date of the 2027 Notes) and September 1, 2030 in the case of the 2030 Notes (three months prior to the maturity date of the 2030 Notes), the Notes may be redeemed, in whole or in part, at our option, at any time or from time to time, on notice given not more than 60 days, if the Notes are being redeemed in part, nor less than 30 days, prior to the date of redemption, at a redemption price equal to 100% of the principal amount of the Notes to be redeemed plus accrued and unpaid interest to, but excluding, the redemption date.

"Bund Rate" means the yield to maturity, expressed as a percentage (rounded to three decimal places, with 0.0005 being rounded upwards), on the third Business Day prior to the date fixed for redemption, of the Reference Bond on the basis of the middle market price of the Reference Bond prevailing at 11:00 a.m. (London time) on such Business Day as determined by the Independent Investment Banker.

"Independent Investment Banker" means one of the Reference Bond Dealers that we appoint to act as the Independent Investment Banker from time to time.

"Reference Bond" means, in relation to any Bund Rate calculation, a German government bond whose maturity is closest to the maturity of the Notes, or if the Independent Investment Banker considers that such similar bond is not in issue, such other German government bond as the Independent Investment Banker, with the advice of three brokers of, and/or market makers in, German government bonds selected by the Independent Investment Banker, determine to be appropriate for determining the Bund Rate.

"Reference Bond Dealer" means (A) Barclays Bank PLC, Citigroup Global Markets Limited, Deutsche Bank AG, London Branch (not in its capacity as common depositary) and Merrill Lynch International (or their respective affiliates that are Primary Bond Dealers), and their respective successors and (B) any other broker of, and/or market maker in, German government bonds (a "Primary Bond Dealer") selected by us.

Notice of redemption will be mailed or electronically delivered at least 30 but not more than 60 days before the redemption date to each holder of record of the Notes to be redeemed at its registered address. No Notes of €100,000 or less can be redeemed in part. The notice of redemption for the Notes will state, among other things, the amount of Notes to be redeemed, the redemption date, the manner in which the redemption price will be calculated and the place or places that payment will be made upon presentation and surrender of Notes to be redeemed. Unless we default in the payment of the redemption price, interest will cease to accrue on any Notes that have been called for redemption at the redemption date. If less than all of the Notes are to be redeemed, and the Notes are global notes, the Notes to be redeemed will be selected by Clearstream or Euroclear in accordance with their standard procedures. If the Notes to be redeemed are not global notes then held by Clearstream or Euroclear, selection of the Notes for redemption will be made by the trustee in accordance with its standard procedures, including by lot or pro rata. A new note in principal amount equal to the unredeemed portion thereof will be issued in the name of the holder thereof upon cancellation of the original note.

Payment of Additional Amounts

All payments of principal and interest in respect of the Notes will be made free and clear of, and without deduction or withholding for or on account of, any present or future taxes, duties, assessments or other similar governmental charges required to be deducted or withheld by the United States or any political subdivision or taxing authority of or in the United States (collectively, "Taxes"), unless such withholding or deduction is required by law.

In the event any such withholding or deduction for Taxes on payments by us in respect of the Notes is required, we will, subject to the limitations described below, pay such additional amounts ("Additional Amounts") on the Notes as will result in receipt by each beneficial owner of a Note that is not a U.S. Person (as defined below) of such amounts (after all such withholding or deduction), as would have been received by such beneficial owner had no such withholding or deduction been required. We will not be required, however, to make any payment of Additional Amounts for or on account of:

a) any Tax that would not have been imposed but for (1) the existence of any present or former connection (other than a connection arising solely from the ownership of those Notes or the receipt of payments in respect of those Notes)

between a holder of a Note (or the beneficial owner for whose benefit such holder holds such Note), or between a fiduciary, settlor, beneficiary of, member or shareholder or other equity owner of, or possessor of a power over, that holder or beneficial owner (if that holder or beneficial owner is an estate, trust, partnership, corporation or other entity) and the United States, including that holder or beneficial owner, or that fiduciary, settlor, beneficiary, member, shareholder or possessor, being or having been a citizen or resident or treated as a resident of the United States or being or having been engaged in trade or business or present in the United States or having had a permanent establishment in the United States, (2) the failure of a beneficial owner or holder of the Notes to comply with any certification, information, documentation or other reporting requirements concerning the nationality, residence, identity or connections with the United States of the beneficial owner or holder of the Notes that such beneficial owner or holder is legally able to comply with (including, but not limited to, the requirement to provide Internal Revenue Service Forms W-8BEN, W-8BEN-E, W-8ECI, or any subsequent versions thereof or successor thereto, and including, without limitation, any documentation requirement under an applicable income tax treaty) or (3) the presentation of a Note for payment on a date more than 30 days after the later of the date on which that payment becomes due and payable and the date on which payment is duly provided for, except to the extent that the holder or beneficial owner would have been entitled to such Additional Amounts on presenting such Note on any date during such 30-day period;

- b) any estate, inheritance, gift, sales, transfer, capital gains, excise, personal property, wealth or similar Tax;
- c) any Tax imposed by reason of the beneficial owner's past or present status as a passive foreign investment company with respect to the United States, a controlled foreign corporation with respect to the United States, a foreign tax exempt organization with respect to the United States or a personal holding company with respect to the United States or as a corporation that accumulates earnings to avoid U.S. federal income tax;
- d) any Tax which is payable otherwise than by withholding or deducting from payment of principal of or premium, if any, or interest on such Notes;
- e) any Tax required to be withheld by any paying agent from any payment of principal of and premium, if any, or interest on any Note if that payment can be made without withholding by any other paying agent;
- f) any Tax imposed on interest received by (1) a 10-percent shareholder (as defined in Section 871(h)(3)(B) of the U.S. Internal Revenue Code of 1986, as amended (the "Code"), and the regulations that may be promulgated thereunder) of us, (2) a controlled foreign corporation that is related to us within the meaning of Section 864(d)(4) of the Code, or (3) a bank receiving interest described in Section 881(c)(3)(A) of the Code, to the extent such Tax would not have been imposed but for the beneficial owner's status as described in clauses (1) through (3) of this paragraph (f);
- any withholding or deduction that is required to be made pursuant to the European Council Directive 2003/48/EC on the taxation of savings income (the "Savings Directive") or any other European Union directive amending, supplementing or replacing the Savings Directive, or any law implementing or complying with, or introduced in order to conform to, the Savings Directive or other European Union directives;
- h) any Tax required to be withheld or deducted under Sections 1471 through 1474 of the Code (or any amended or successor version of such Sections that is substantively comparable) ("FATCA"), any regulations or other guidance thereunder, or any agreement (including any intergovernmental agreement) entered into in connection therewith; or any law, regulation or other official guidance enacted in any jurisdiction implementing FATCA or an intergovernmental agreement in respect of FATCA; or
- i) any combination of items (a), (b), (c), (d), (e), (f), (g) and (h);

nor will we pay any Additional Amounts to any beneficial owner or holder of Notes who is a fiduciary or partnership to the extent that a beneficiary or settlor with respect to that fiduciary or a member of that partnership or a beneficial owner thereof would not have been entitled to the payment of those Additional Amounts had that beneficiary, settlor, member or beneficial owner been the beneficial owner of those Notes.

As used in the preceding paragraph, "U.S. Person" means any individual who is a citizen or resident of the United States for U.S. federal income tax purposes, a corporation, partnership or other entity created or organized in or under the laws of the United States, any state of the United States or the District of Columbia (other than a partnership that is not treated as a United States person under any applicable U.S. Treasury regulations), or any estate or trust the income of which is subject to United States federal income taxation regardless of its source.

Any reference in the terms of the Notes to any amounts in respect of the Notes shall be deemed also to refer to any Additional Amounts which may be payable under this provision.

Redemption for Tax Reasons

We may redeem each series of the Notes at our option, in whole but not in part, at a redemption price equal to 100% of the principal amount of the Notes to be redeemed, together with any accrued and unpaid interest on the Notes to be redeemed to, but excluding, the redemption date, at any time, if:

- i. we have or will become obliged to pay Additional Amounts with respect to such series of notes as a result of any change in, or amendment to, the laws, regulations, treaties, or rulings of the United States or any political subdivision of or in the United States or any taxing authority thereof or therein affecting taxation, or any change in, or amendment to, the application, official interpretation, administration or enforcement of such laws, regulations, treaties or rulings (including a holding by a court of competent jurisdiction in the United States), which change or amendment is enacted, adopted, announced or becomes effective on or after the date of the issuance of the Notes; or
- ii. on or after the date of the issuance of the Notes, any action is taken by a taxing authority of, or any action has been brought in a court of competent jurisdiction in, the United States or any political subdivision of or in the United States or any taxing authority thereof or therein, including any of those actions specified in clause (i) above, whether or not such action was taken or brought with respect to us, or there is any change, amendment, clarification, application or interpretation of such laws, regulations, treaties or rulings, which in any such case, will result in a material probability that we will be required to pay Additional Amounts with respect to such Notes (it being understood that such material probability will be deemed to result if the written opinion of independent tax counsel described in clause (b) below to such effect is delivered to the trustee and the paying agent).

Notice of any redemption will be mailed, or delivered electronically if the Notes are held by any depositary (in accordance with such depositary's customary procedures), at least 30 days but not more than 60 days before the redemption date to each registered holder of the Notes to be redeemed; provided, however, that the notice of redemption shall not be given earlier than 90 days before the earliest date on which we would be obligated to pay such Additional Amounts if a payment in respect of the Notes were then due.

Prior to the mailing or delivery of any notice of redemption pursuant to this section "Redemption for Tax Reasons," we will deliver to the trustee and the paying agent:

- a) a certificate signed by one of our officers stating that we are entitled to effect such redemption and setting forth a statement of facts showing that the conditions precedent to our right to so redeem have occurred, and
- b) a written opinion of independent tax counsel of nationally recognized standing to the effect that we have or will become obligated to pay such Additional Amounts as a result of such change or amendment or that there is a material probability that we will be required to pay Additional Amounts as a result of such action, change, amendment, clarification, application or interpretation, as the case may be.

Covenants

The indenture sets forth limited covenants, including the covenant described below, that apply to the Notes

Consolidation, Merger and Sale of Assets

The indenture provides that we may consolidate with or merge with or into any other person, and may sell, transfer, lease or convey all or substantially all of our properties and assets to another person, provided that the following conditions are satisfied:

- we are the continuing entity, or the resulting, surviving or transferee person (the "Successor") is a corporation, partnership, trust or other entity
 organized and validly existing under the laws of any domestic or foreign jurisdiction and the Successor (if not us) will expressly assume, by supplemental
 indenture, all of our obligations under the debt securities and the indenture and, for each security that by its terms provides for conversion, provide for
 the right to convert that security in accordance with its terms;
- immediately after giving effect to that transaction, no default or event of default under the indenture has occurred and is continuing; and

 if requested, the trustee receives from us, if requested, an officer's certificate and an opinion of counsel that the merger, consolidation, transfer, sale, lease or conveyance and the supplemental indenture, as the case may be, complies with the applicable provisions of the indenture.

If we consolidate or merge with or into any other person or sell, transfer, lease or convey all or substantially all of our properties and assets in accordance with the indenture, the Successor will be substituted for us under the indenture, with the same effect as if it had been an original party to the indenture. As a result, the Successor may exercise our rights and powers under the indenture, and we will be released from all our liabilities and obligations under the indenture and the debt securities.

For purposes of this covenant, "person" means any individual, corporation, partnership, limited liability company, joint venture, association, joint-stock company, trust, unincorporated organization or government or any agency or political subdivision thereof or any other entity.

No Sinking Fund

The Notes will not be entitled to the benefit of any sinking fund.

Discharge, Defeasance and Covenant Defeasance

We may discharge certain obligations to holders of any series of the Notes that have not already been delivered to the trustee for cancellation and that either have become due and payable or will become due and payable within one year (or scheduled for redemption within one year) by depositing with the trustee, in trust, funds in euros or European Government Obligations (as defined below), or both, (or, if at the time of such deposit, all payments in respect of the Notes are required to be made in U.S. dollars as described under "-Payment on the Notes," in U.S. dollars or U.S. government obligations, or both) in an amount sufficient to pay the entire indebtedness including the principal and premium, if any, and interest to the date of deposit (if such series of Notes have become due and payable) or to the maturity thereof or the redemption date of such series of Notes, as the case may be. We may direct the trustee to invest those funds in European Government Obligations with a maturity of one year or less or in a money market fund that invests solely in short-term European Government Obligations.

The indenture provides that we may elect either (1) to defease and be discharged from any and all obligations with respect to any series of the Notes (except for, among other things, obligations to register the transfer or exchange of such series of Notes, to replace temporary or mutilated, destroyed, lost or stolen Notes of such series, to maintain an office or agency with respect to such series of Notes and to hold moneys for payment in trust) ("legal defeasance") or (2) to be released from our obligations to comply with the restrictive covenants under the indenture, and any omission to comply with those obligations will not constitute a default or an event of default with respect to such series of Notes and certain covenants will no longer be applied ("covenant defeasance"). Legal defeasance or covenant defeasance, as the case may be, will be conditioned upon, among other things, the irrevocable deposit by us with the trustee, in trust, of an amount in euros or European Government Obligations, or both, (or, if at the time of such deposit, all payments in respect of the Notes are required to be made in U.S. dollars as described under "-Payment on the Notes," in U.S. dollars or U.S. government obligations, or both) applicable to such series of Notes which through the scheduled payment of principal and interest in accordance with their terms will provide money in an amount sufficient to pay the principal of and premium, if any, and interest on the Notes of such series on the scheduled due dates therefor.

If we effect legal defeasance or covenant defeasance with respect to any series of the Notes, the amount in euros or European Government Obligations, or both, (or, if at the time of such deposit, all payments in respect of the Notes are required to be made in U.S. dollars as described under "-Payment on the Notes," in U.S. dollars or U.S. government obligations, or both) on deposit with the trustee will be sufficient, in the opinion of a nationally recognized firm of independent accountants, to pay amounts due on the Notes of such series at the time of the stated maturity but may not be sufficient to pay amounts due on the Notes of such series at the time of the acceleration resulting from that event of default. However, we would remain liable to make payment of amounts due at the time of acceleration.

We will be required to deliver to the trustee an opinion of counsel that the deposit and related defeasance will not cause the holders and beneficial owners of the series of Notes being defeased to recognize income, gain or loss for U.S. federal income tax purposes. If we elect legal defeasance, that opinion of counsel must be based upon a ruling from the U.S. Internal Revenue Service or a change in law to that effect.

We may exercise our legal defeasance option notwithstanding our prior exercise of our covenant defeasance option.

"European Government Obligations" means (1) direct obligations of the Federal Republic of Germany, where the timely payment or payments thereunder are supported by the full faith and credit of the Federal Republic of Germany or

(2) obligations of a person controlled or supervised by and acting as an agency or instrumentality of the Federal Republic of Germany, where the timely payment or payments thereunder are unconditionally guaranteed as a full faith and credit obligation by the Federal Republic of Germany, which, in either case under clauses (1) or (2) are not callable or redeemable at the option of the issuer thereof.

Events of Default

Each of the following events are defined in the indenture as an "event of default" (whatever the reason therefor and whether or not it will be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body) with respect to the debt securities of any series (including for each series of the Notes):

(1) default in the payment of any installment of interest on any debt securities of that series for 30 days after becoming due;

(2) default in the payment of principal of or premium, if any, on any debt securities of that series when it becomes due and payable at its stated maturity, upon optional redemption, upon declaration or otherwise;

(3) default in the deposit of any sinking fund payment, when and as due by the terms of any debt securities of that series;

(4) default in the performance, or breach, of any covenant or agreement of ours in the indenture with respect to the debt securities of that series (other than as referred to in clause (1), (2) or (3) above), which continues for a period of 90 days after written notice to us by the trustee or to us and the trustee by the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series;

(5) we pursuant to or within the meaning of the Bankruptcy Law:

- commence a voluntary case or proceeding;
- consent to the entry of an order for relief against us in an involuntary case or proceeding;
- consent to the appointment of a Custodian of us or for all or substantially all of our property;
- make a general assignment for the benefit of our creditors;
- file a petition in bankruptcy or answer or consent seeking reorganization or relief;
- consent to the filing of a petition in bankruptcy or the appointment of or taking possession by a Custodian; or
- take any comparable action under any foreign laws relating to insolvency;
- (6) a court of competent jurisdiction enters an order or decree under any Bankruptcy Law that:
 - is for relief against us in an involuntary case, or adjudicates us insolvent or bankrupt;
 - appoints a Custodian of us or for all or substantially all of our property; or

• orders the winding-up or liquidation of us (or any similar relief is granted under any foreign laws); and the order or decree remains unstayed and in effect for 90 days; or

(7) any other event of default provided with respect to debt securities of that series occurs as specified in a supplemental indenture.

"Bankruptcy Law" means Title 11, United States Code or any similar federal or state or foreign law for the relief of debtors.

"Custodian" means any custodian, receiver, trustee, assignee, liquidator or other similar official under any Bankruptcy Law.

If an event of default with respect to debt securities of any series (other than an event of default relating to certain events of bankruptcy, insolvency, or reorganization of us) occurs and is continuing, the trustee for that series by notice to us, or the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series by notice to us and the trustee, may, and the trustee at the request of these holders will, declare the principal of and premium, if any, and accrued and unpaid interest on all the debt securities of that series to be due and payable. Upon a declaration of this type, that principal, premium and accrued and unpaid interest will be due and payable immediately. If an event of default relating to certain events of bankruptcy, insolvency or reorganization of us occurs and is continuing, the principal of and premium, if any, and accrued and unpaid interest of that series will become and be immediately due and payable without any declaration or other act on the part of the trustee of that series or any holders.

The holders of not less than a majority in aggregate principal amount of the outstanding debt securities of any series may rescind a declaration of acceleration and its consequences, if we have deposited certain sums with the trustee and all events of default with respect to the debt securities of that series, other than the non-payment of the principal or interest which have become due solely by that acceleration, have been cured or waived, as provided in the indenture.

An event of default for a particular series of debt securities does not necessarily constitute an event of default for any other series of debt securities issued under the indenture.

We are required to furnish the trustee annually a statement by certain of our officers to the effect that, to the best of their knowledge, we are not in default in the fulfillment of any of our obligations under the indenture or, if there has been a default in the fulfillment of any obligation of us, specifying each default.

No holder of any debt securities of any series will have any right to institute any judicial or other proceeding with respect to the indenture, or for the appointment of a receiver or trustee, or for any other remedy unless:

(1) an event of default has occurred and is continuing and that holder has given the trustee prior written notice of that continuing event of default with respect to the debt securities of that series;

(2) the holders of not less than 25% of the aggregate principal amount of the outstanding debt securities of that series have requested the trustee to institute proceedings in respect of that event of default;

(3) the trustee has been offered indemnity reasonably satisfactory to it against its costs, expenses and liabilities in complying with that request;

(4) the trustee has failed to institute proceedings 60 days after the receipt of that notice, request and offer of indemnity; and

(5) no direction inconsistent with that written request has been given for 60 days by the holders of a majority in aggregate principal amount of the outstanding debt securities of that series.

The holders of a majority in aggregate principal amount of outstanding debt securities of a series will have the right, subject to certain limitations, to direct the time, method and place of conducting any proceeding for any remedy available to the trustee with respect to the debt securities of that series or exercising any trust or power conferred to the trustee, and to waive certain defaults. The indenture provides that if an event of default occurs and is continuing, the trustee will exercise those of its rights and powers under the indenture, and use the same degree of care and skill in their exercise, as a prudent person would exercise or use under the circumstances in the conduct of that person's own affairs. Subject to those provisions, the trustee will be under no obligation to exercise any of its rights or powers under the indenture at the request of any of the holders of the debt securities of a series unless they will have offered to the trustee security or indemnity satisfactory to the trustee against the costs, expenses and liabilities which might be incurred by it in compliance with that request.

Notwithstanding the foregoing, the holder of any debt security will have an absolute and unconditional right to receive payment of the principal of and premium, if any, and interest on that debt security on or after the due dates expressed in that debt security and to institute suit for the enforcement of payment.

Modification and Waivers

Modification and amendments of the indenture and the debt securities of any series (including for each series of the Notes) may be made by us and the trustee with the consent of the holders of not less than a majority in aggregate principal amount of the outstanding debt securities of that series affected thereby; provided, however, that no modification or amendment may, without the consent of the holder of each outstanding debt security of that series affected thereby:

- change the stated maturity of the principal of, or installment of interest on, any debt security;
- reduce the principal amount of any debt security or reduce the amount of the principal of any debt security which would be due and payable upon a declaration of acceleration of the maturity thereof or reduce the rate of interest on any debt security;
- reduce any premium payable on the redemption of any debt security or change the date on which any debt security may or must be redeemed;
- change the coin or currency in which the principal of or premium, if any, or interest on any debt security is payable;
- impair the right of any holder to institute suit for the enforcement of any payment on or after the stated maturity of any debt security (or, in the case of redemption, on or after the redemption date);

- reduce the percentage in principal amount of the outstanding debt securities, the consent of whose holders is required in order to take certain actions;
- reduce the requirements for quorum or voting by holders of debt securities in the indenture or the debt security;
- modify any of the provisions in the indenture regarding the waiver of past defaults and the waiver of certain covenants by the holders of debt securities except to increase any percentage vote required or to provide that certain other provisions of the indenture cannot be modified or waived without the consent of the holder of each debt security affected thereby; or
- make any change that adversely affects in any material respect the right to convert or exchange any debt security or decreases the conversion or exchange rate or increases the conversion price of any convertible or exchangeable debt security, unless that decrease or increase is permitted by the terms of the debt securities; or
- modify any of the above provisions.

We and the trustee may, without the consent of any holders, modify or amend the terms of the indenture and the debt securities of any series with respect to the following:

- to add to our covenants for the benefit of holders of the debt securities of all or any series or to surrender any right or power conferred upon us;
- to evidence the succession of another person to, and the assumption by the successor of our covenants, agreements and obligations under, the indenture pursuant to the covenant described under "-Covenants-Consolidation, Merger and Sale of Assets";
- to add any additional events of default for the benefit of holders of the debt securities of all or any series;
- to add one or more guarantees for the benefit of holders of the debt securities;
- to secure the debt securities pursuant to the covenants of the indenture;
- to add or appoint a successor or separate trustee or other agent;
- to provide for the issuance of additional debt securities of any series;
- to establish the form or terms of debt securities of any series as permitted by the indenture;
- to comply with the rules of any applicable securities depository;
- to provide for uncertificated debt securities in addition to or in place of certificated debt securities;
- to add to, change or eliminate any of the provisions of the indenture in respect of one or more series of debt securities; provided that any such addition, change or elimination (a) shall neither (1) apply to any debt security of any series created prior to the execution of that supplemental indenture and entitled to the benefit of that provision nor (2) modify the rights of the holder of any debt security with respect to that provision or (b) shall become effective only when there is no debt security described in clause (1) outstanding;
- to comply with requirements of the SEC in order to effect or maintain the qualification of the indenture under the Trust Indenture Act of 1939, as amended;
- to conform any provision of the indenture, any supplemental indenture, one or more series of debt securities or any related guarantees or security documents to the description of such securities contained in our prospectus, prospectus supplement, offering memorandum or similar document with respect to the offering of the securities of such series to the extent that such description was intended to be a verbatim recitation of a provision in the indenture, such securities or any related guarantees or security documents;
- to cure any ambiguity, omission, defect or inconsistency; or
- to change any other provision; provided that the change does not adversely affect the interests of the holders of debt securities of any series in any material respect.

The holders of at least a majority in aggregate principal amount of the outstanding debt securities of any series may, on behalf of the holders of all debt securities of that series, waive compliance with certain restrictive provisions of the indenture. The holders of not less than a majority in aggregate principal amount of the outstanding debt securities of a series may, on behalf of the holders of all debt securities of that series, waive any past default and its consequences under the indenture with respect to the debt securities of that series, except a default (1) in the payment of principal of or premium, if any, or interest on debt securities of that series or (2) in respect of a covenant or provision of the indenture that cannot be modified or amended without the consent of the holder of each debt security of that series. Upon any waiver, that default will cease to exist, and any event of default arising therefrom will be deemed to have been cured, for every purpose of the indenture;

however, no waiver will extend to any subsequent or other default or event of default or impair any rights consequent thereon.

EXHIBIT 10.11

MASTERCARD SENIOR EXECUTIVE ANNUAL INCENTIVE COMPENSATION PLAN

As Amended and Restated Effective February 4, 2019

Mastercard Incorporated and subsidiaries (collectively or individually, as the context requires, the "Company") has adopted the Mastercard Senior Executive Annual Incentive Compensation Plan (the "Plan") to reward senior executives for successfully achieving performance goals that are in direct support of corporate and business unit/regional goals.

ARTICLE I

DEFINITIONS

Section 1.1 "Board" shall mean the Board of Directors of the Company.

Section 1.2 "Committee" shall mean the Human Resources and Compensation Committee of the Board of Directors of the Company, or such other committee or subcommittee designated by the Board to administer the Plan.

Section 1.3 "Disability" shall mean total and permanent disability in accordance with the Company's long-term disability plan, as determined by the Committee.

Section 1.4 "Participant" shall mean, with respect to any Performance Period, the Company's Chief Executive Officer (the "CEO") and individuals who are both direct reports to the CEO and Section 16 officers (for purposes of the Securities Exchange Act of 1934, as amended).

Section 1.5 "Performance Period" shall mean a period of no less than 90 days during which the attainment of performance targets shall be measured for purposes of determining the amount of incentive compensation payable hereunder, as established by the Committee.

Section 1.6 "Retirement" shall have the meaning set forth in the Mastercard Incorporated 2006 Long Term Incentive Plan, as amended from time to time.

ARTICLE II

BONUS AWARDS

Section 2.1 Performance Targets.

(a) The Committee (or subcommittee described in Section 6.1(a) below), will establish performance targets for each Performance Period. The performance targets for a Performance Period shall be based upon one or more of the following objective business criteria, or such other criteria determined by the Committee, in its discretion: (i) revenue; (ii) earnings (including earnings before interest, taxes, depreciation and amortization, earnings before interest and taxes, and earnings before or after taxes); (iii) operating income; (iv) net income; (v) profit or operating margins; (vi) earnings per share; (vii) return on assets; (viii) return on equity; (ix) return on invested capital; (x) economic value-added; (xi) stock price; (xii) gross dollar volume; (xiii) total shareholder

return; (xiv) market share; (xv) book value; (xvi) expense management; (xvii) cash flow; (xviii) customer satisfaction; and (xix) strategic corporate or individual objectives. The foregoing criteria may relate to the Company, one or more of its affiliated employers or subsidiaries or one or more of its divisions, regions or units, or any combination of the foregoing, and may be applied on an absolute basis and/or be relative to one or more peer group companies or indices, or any combination thereof, all as the Committee shall determine. In establishing performance targets under Section 2.1(b) based on these business criteria, the Committee may provide that the targets shall be adjusted to reflect specified extraordinary, unusual and/or non-recurring items.

(b) The performance targets shall be established by the Committee (or subcommittee) for a Performance Period (i) while the outcome for that Performance Period is substantially uncertain and (ii) no more than 90 days or, if less, the number of days which is equal to 25 percent of the relevant Performance Period, after the commencement of the Performance Period to which the performance target relates.

Section 2.2 Bonus Awards.

(a) The maximum bonus award payable to any Participant with respect to any calendar year of the Company shall not exceed \$10,000,000. The Committee shall establish a target level of bonus for each year for each Participant and the maximum bonus payable to each Participant shall be 250 percent of the Participant's target bonus; provided, however, that the aggregate maximum bonus payable to all Participants shall be 200 percent of the aggregate target bonuses.

(b) Prior to the payment of a bonus award to any Participant, the Committee (or subcommittee described in Section 6.1(a) below) shall certify in writing the level of performance attained for the Performance Period to which such bonus award relates. The Committee shall have no discretion to increase the amount of a Participant's maximum bonus award that would otherwise be payable to the Participant upon the achievement of specified levels of the performance target established by the Committee, however, the Committee may exercise negative discretion to make an award to any Participant for any Performance Period in an amount that is less than such maximum bonus award.

ARTICLE III

PAYMENT OF BONUS AWARD

Section 3.1 Form of Payment. Each Participant's bonus award shall be paid in cash.

Section 3.2 <u>Timing of Payment</u>. Unless otherwise elected by the Participant pursuant to Section 3.3 below, each bonus award shall be paid in the first 2 ½ months of the year following the end of the Performance Period.

Section 3.3 Deferral of Payment. Payments of bonus awards under the Plan are eligible for deferral as allowed under the Mastercard Incorporated Deferral Plan.

ARTICLE IV

BONUS AWARD RECOUPMENT POLICY

Section 4.1 Forfeiture/Recoupment in the event of restatement. In the event of a restatement of materially inaccurate financial results, the Committee has the discretion to recover

bonus awards that were paid under the Plan to a Participant with respect to the period covered by the restatement as set forth herein. If the payment of a bonus award would have been lower had the achievement of applicable financial performance targets been calculated based on such restated financial results, the Committee may, if it determines appropriate in its sole discretion, to the extent permitted by law, recover from the Participant the portion of the bonus award paid (or earned) in excess of the payment that would have been made based on the restated financial results. The Company will not seek to recover bonus awards paid (or, in the case of a deferred bonus, earned) more than three years after the date the Company filed the original report with the Securities and Exchange Commission that contained the inaccurate financial results to be restated.

Section 4.2 Forfeiture/Recoupment in the event of detrimental behavior. In the event a Participant engages in misconduct which has or might reasonably be expected to have material reputational or other harm to the Company, the Committee has the discretion to forfeit the Participant's bonus award for the Performance Period in which the misconduct was discovered and recover bonus awards that were paid under the Plan to a Participant (or, in the case of a deferred bonus, earned by such Participant) in the three-year period prior to the date the misconduct was discovered or prior to the date the full impact of the misconduct was known, as determined by the Committee.

Section 4.3 Forfeiture/Recoupment required by law. The Recoupment Policy set forth in this Article IV shall be applied by the Committee, at its discretion, to the maximum extent permitted under applicable law. Further, the Recoupment Policy is in addition to, and not in lieu of, any recoupment requirements under the Sarbanes-Oxley Act or under other_applicable laws, rules, regulations or stock exchange listing standards, including, without limitation, Section 954 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 and shall apply notwithstanding anything to the contrary in the Plan.

ARTICLE V

TERMINATIONS

Section 5.1 Terminations. Unless otherwise determined by the Committee, a Participant who, whether voluntarily or involuntarily, is terminated, demoted, transferred or otherwise ceases to be a Participant at any time prior to the date a bonus award is paid in respect of a Performance Period shall not be eligible to receive any bonus award with respect to such Performance Period. Notwithstanding the foregoing, (i) in the event of a Participant's death during a Performance Period or prior to the date a bonus award is paid in respect of a Performance Period, the Participant's death, the target award payable for the Performance Period of the Participant's death; (ii) in the event of a Participant's termination by reason of Disability during the Performance Period or prior to the date a bonus award is paid in respect of a Performance Period, the Participant's death; (ii) in the event of a Participant's termination by reason of Disability during the Performance Period or prior to the date a bonus award is paid in respect of a Performance Period, the Participant's death; (ii) in the event of a Participant's death, prorated based on the portion of the Performance Period that elapsed prior to such termination of employment by reason of Disability; and (iii) in the event of a Participant's Retirement during a Performance Period or prior to the date a bonus award is paid in respect of a Performance Period, the Participant's Retirement during a Performance Period or prior to the date a bonus award is paid in respect of a Performance Period, the Participant's Retirement during a Performance Period or prior to the date a bonus award based on the level of performance attained for such Performance Period, as determined pursuant to Section 2.2(b), prorated based on the portion of the Performance Period that elapsed prior to the Participant's Retirement, and paid to the Participant in accordance with Section 3.2 above.

ARTICLE VI

ADMINISTRATION

Section 6.1 Administration.

(a) The Plan shall be administered by the Committee, which may delegate its duties and powers in whole or in part to any subcommittee thereof.

(b) It shall be the duty of the Committee to conduct the general administration of the Plan in accordance with its provisions. The Committee shall have the power to interpret the Plan, and to adopt such rules for the administration, interpretation and application of the Plan as are consistent therewith and to interpret, amend or revoke any such rules. The Committee's decisions or actions in respect thereof shall be conclusive and binding upon any and all Participants and their beneficiaries, successors and assigns, and all other persons.

ARTICLE VII

OTHER PROVISIONS

Section 7.1 Term. This Plan, as approved by the Committee on February 4, 2019, shall be effective for bonuses awarded for 2018 and thereafter.

Section 7.2 Amendment, Suspension or Termination of the Plan. This Plan does not constitute a promise to pay and may be wholly or partially amended or otherwise modified, suspended or terminated at any time or from time to time by the Board or the Committee.

Section 7.3 Bonus Awards and Other Plans. Nothing contained in the Plan shall prohibit the Company from granting awards or authorizing other compensation to any Participant under any other plan or authority or limit the authority of the Company to establish other special awards or incentive compensation plans providing for the payment of incentive compensation to Participants.

Section 7.4 Miscellaneous.

(a) The Company shall deduct all federal, state and local taxes required by law to be withheld from any bonus award earned by or paid to a Participant hereunder, including, without limitation, any Federal Insurance Contributions Act taxes required to be withheld on a deferred bonus award prior to its payment.

(b) In no event shall the Company be obligated to pay to any Participant a bonus award for a Performance Period by reason of the Company's payment of a bonus award to such Participant in any other Performance Period.

(c) The rights of Participants under the Plan shall be unfunded and unsecured. Amounts payable under the Plan are not and will not be transferred into a trust or otherwise set aside, except as provided in the Mastercard Incorporated Deferral Plan, in the event of a deferral thereunder. The Company shall not be required to establish any special or separate fund or to make any other segregation of assets to assure the payment of any bonus award under the Plan.

(d) Nothing in this Plan or in any instrument executed pursuant hereto shall confer upon any person any right to continue in the employment or other service of the Company, or shall affect

the right of the Company to terminate the employment or other service of any person at any time with or without cause.

(e) No rights of any Participant to payments of any amounts under the Plan shall be sold, exchanged, transferred, assigned, pledged, hypothecated or otherwise disposed of other than by will or by laws of descent and distribution, and any such purported sale, exchange, transfer, assignment, pledge, hypothecation or disposition shall be void.

(f) Any provision of the Plan that is prohibited or unenforceable shall be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions of the Plan.

(g) The validity, construction, interpretation and administration of the Plan and any bonus awards under the Plan and of any determinations or decisions made thereunder, and the rights of all persons having or claiming to have any interest herein or thereunder, shall be governed by, and determined exclusively in accordance with, the laws of New York (determined without regard to its conflict of laws provisions).

5

[Mastercard Letterhead]

December 31, 2020

Mr. Ajaypal Banga [Address]

Dear Ajay:

We are pleased to outline our agreement regarding the terms of your new position as Executive Chairman. Your July 1, 2010, Employment Agreement remains in place, with the exception of the new title, role, and compensation terms outlined below.

Effective January 1, 2021, you will serve as Executive Chairman of Mastercard International Incorporated and Mastercard Incorporated. As detailed elsewhere, this role will involve assisting with the transition of the Chief Executive Officer position by serving as an advisor to Mr. Miebach and maintaining key relationships with external stakeholders, as well as leading the Board of Directors.

In your new position, your annual base salary will remain the same and you will continue to be eligible to receive equity awards under the LTIP, but you will not receive an annual bonus.

Please indicate your agreement by signing below and returning this letter agreement to me.

Sincerely,

/s/ Michael Fraccaro

Michael Fraccaro

I hereby accept the terms of this letter agreement.

/s/ Ajay Banga

Date: December 16, 2020

Ajay Banga

1

LIST OF SUBSIDIARIES OF MASTERCARD INCORPORATED

The following is a list of subsidiaries of Mastercard Incorporated as of December 31, 2020, omitting subsidiaries which, considered in the aggregate, would not constitute a significant subsidiary:

<u>Name</u>

Global Mastercard Holdings LP Mastercard A&M Investment Holdings, LLC Mastercard Asia/Pacific Pte. Ltd. Mastercard/Europay U.K. Limited Mastercard Europe SA Mastercard AP Financing Pte. Ltd. Mastercard Financing Solutions LLC Mastercard Holdings LP Mastercard International Incorporated Mastercard Payment Gateway Services Group Limited Mastercard UK Holdco Limited Mastercard US Holdings LLC Jurisdiction United Kingdom Delaware Singapore United Kingdom Belgium Singapore Delaware United Kingdom United Kingdom United Kingdom Delaware

1

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-135572; 333-136460 and 333-143777) and Form S-3 (No. 333-223679) of Mastercard Incorporated of our report dated February 12, 2021 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP New York, New York February 12, 2021

CERTIFICATION PURSUANT TO RULE 13a-14(a)/15d-14(a), AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Michael Miebach, certify that:

1. I have reviewed this annual report on Form 10-K of Mastercard Incorporated;

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 13a-15(e) and 15d-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 12, 2021

By:

/s/ Michael Miebach

Michael Miebach President and Chief Executive Officer

CERTIFICATION PURSUANT TO RULE 13a-14(a)/15d-14(a), AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Sachin Mehra, certify that:

1. I have reviewed this annual report on Form 10-K of Mastercard Incorporated;

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 13a-15(e) and 15d-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 12, 2021

By:

/s/ Sachin Mehra

Sachin Mehra Chief Financial Officer

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 of Mastercard Incorporated (the "Company") on Form 10-K for the period ended December 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Michael Miebach, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that to the best of my knowledge:

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.

February 12, 2021

/s/ Michael Miebach Michael Miebach President and Chief Executive Officer

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 of Mastercard Incorporated (the "Company") on Form 10-K for the period ended December 31, 2020 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Sachin Mehra, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that to the best of my knowledge:

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.

February 12, 2021

/s/ Sachin Mehra Sachin Mehra Chief Financial Officer

Section 13(r) Disclosure

Mastercard Incorporated ("Mastercard") has established a risk-based compliance program designed to prevent us from having business dealings with Iran, as well as other prohibited countries, regions, individuals or entities. This includes obligating issuers and acquirers to screen account holders and merchants, respectively, against the U.S. Office of Foreign Assets Control's ("OFAC") sanctions lists, including the List of Specially Designated Nationals ("SDN list").

We identified through our compliance program that for the period covered by this Report, Mastercard processed transactions resulting from:

- certain acquirers located in the Asia Pacific and Europe regions having acquired transactions for consular services with Iranian embassies in those regions that accepted Mastercard cards
- certain acquirers located in the Europe and Middle East/Africa regions having acquired transactions for an Iranian airline, which accepted Mastercard cards in these regions

OFAC regulations and other legal authorities provide exemptions for certain activities involving dealings with Iran. However, Section 219 of the Iran Threat Reduction and Syria Human Rights Act of 2012 requires us to disclose whether we, or any of our affiliates, have knowingly engaged in certain transactions or dealings involving the Government of Iran or with certain persons or entities found on the SDN list, regardless of whether these dealings constitute a violation of OFAC regulations.

We do not calculate net revenues or net profits associated with specific merchants (our customers' customers). However, we used our fee schedule and the aggregate number and amount of transactions involving the Iranian embassies and Iranian airline to estimate the net revenue and net profit we obtained during the three months and year ended December 31, 2020. Both the number of transactions and our estimated net revenue and net profits for this period are de minimis.