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

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**FORM S-8**  
REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933

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**Pure Storage, Inc.**

*(Exact name of Registrant as specified in its charter)*

**Delaware**

(State or other jurisdiction of Incorporation or organization)

**27-1069557**

(I.R.S. Employer Identification No.)

**650 Castro Street, Suite 400  
Mountain View, California 94041  
(800) 379-7873**

(Address of principal executive offices) (Zip code)

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**Pure Storage, Inc. 2015 Equity Incentive Plan  
Pure Storage, Inc. 2015 Employee Stock Purchase Plan**  
(Full titles of the plans)

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**Charles Giancarlo  
Chief Executive Officer  
Pure Storage, Inc.  
650 Castro Street, Suite 400  
Mountain View, California 94041  
(800) 379-7873**

(Name and address of agent for service) (Telephone number, including area code, of agent for service)

Copies to:

**Mark P. Tanoury  
John T. McKenna  
Seth J. Gottlieb  
Cooley LLP  
3175 Hanover Street  
Palo Alto, California 94304  
(650) 843-5000**

**Joseph FitzGerald  
Vice President & General Counsel  
Todd Wheeler  
Pure Storage, Inc.  
650 Castro Street, Suite 400  
Mountain View, California 94041  
(800) 379-7873**

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

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“large accelerated filer,” “accelerated filer,” “smaller reporting company” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

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

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by checkmark 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 7(a)(2)(B) of the Securities Act.

#### CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered (1)	Proposed Maximum Offering Price per Share	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Class A Common Stock, par value \$0.0001 per share				
– 2015 Equity Incentive Plan	11,048,948 (2)	\$19.51 (4)	\$215,564,975	\$26,838
– 2015 Employee Stock Purchase Plan	2,209,789 (3)	\$16.59 (5)	\$36,660,400	\$4,565
Total	13,258,737		\$252,225,375	\$31,403

- (1) Pursuant to Rule 416(a) promulgated under the Securities Act of 1933, as amended (the “Securities Act”), this Registration Statement shall also cover any additional shares of Class A common stock of Pure Storage, Inc. (“Pure Storage”) that become issuable under the plans set forth herein by reason of any stock dividend, stock split, recapitalization, or other similar transaction effected that results in an increase to the number of outstanding shares of Pure Storage’s Class A common stock.
- (2) Represents 11,048,948 additional shares of Class A common stock available for issuance as a result of the annual evergreen increase on February 1, 2018 under Pure Storage’s 2015 Equity Incentive Plan (the “2015 Plan”).
- (3) Represents 2,209,789 additional shares of Class A common stock available for issuance as a result of the annual evergreen increase on February 1, 2018 under Pure Storage’s 2015 Employee Stock Purchase Plan (the “2015 ESPP”).
- (4) Estimated in accordance with Rule 457(c) and 457(h) solely for purposes of calculating the registration fee on the basis of \$19.51, the average of the high and low prices of Pure Storage’s Class A common stock as reported on the New York Stock Exchange on March 23, 2018.
- (5) Estimated in accordance with Rule 457(c) and 457(h) solely for purposes of calculating the registration fee on the basis of 85% of \$19.51 (\$16.59), the average of the high and low prices of Pure Storage’s Class A common stock as reported on the New York Stock Exchange on March 23, 2018. Pursuant to the 2015 ESPP, which plan is incorporated by reference herein, the purchase price of the shares of common stock will be 85% of the lower of the fair market value of the common stock on the first trading day of the offering period or on the last day of the offering period.

## EXPLANATORY NOTE

### 2015 Equity Incentive Plan

The 2015 Equity Incentive Plan (the "2015 Plan") of Pure Storage, Inc. ("Pure Storage") provides that the total number of shares reserved for issuance under the 2015 Plan will be automatically increased on February 1st of each calendar year, from February 1, 2016 through February 1, 2025, in an amount equal to 5% of the total number of shares of Pure Storage's capital stock outstanding on the last day of the calendar month prior to the date of each automatic increase, or a lesser number of shares determined by the Pure Storage board of directors. Accordingly, on February 1, 2018, the number of shares of Class A common stock reserved under the 2015 Plan increased by an additional 11,048,948 shares (or 5% of the outstanding shares of common stock as of January 31, 2018).

### 2015 Employee Stock Purchase Plan

The 2015 Employee Stock Purchase Plan (the "2015 ESPP") of Pure Storage provides that the total number of shares reserved for issuance under the 2015 ESPP will automatically increased on February 1st of each calendar year, from February 1, 2016 through February 1, 2025, by the lesser of (1) 1% of the total number of shares of Pure Storage common stock outstanding on the last day of the calendar month prior to the date of the automatic increase, and (2) 3,500,000 shares; provided that prior to the date of any such increase, the Pure Storage board of directors may determine that such increase will be less than the amount set forth in clauses (1) and (2). Accordingly, on February 1, 2018, the number of shares of Class A common stock reserved under the 2015 ESPP increased by an additional 2,209,789 shares (or 1% of the outstanding shares of common stock as of January 31, 2018).

These additional shares of Class A common stock are securities of the same class as other securities for which the Registration Statements on Forms S-8 (File No. 333-207315, File No. 333-210417, and File No. 333-220396) ("Prior Forms S-8") were filed with the Securities and Exchange Commission (the "Commission") on October 7, 2015, March 25, 2017, and September 8, 2017, respectively.

## PART II

### ITEM 3. INCORPORATION OF CERTAIN DOCUMENTS BY REFERENCE

The following documents filed by Pure Storage with the Commission are incorporated by reference into this Registration Statement:

- (a) Pure Storage's Annual Report on Form 10-K for the fiscal year ended January 31, 2018 filed on March 26, 2018, which contains audited financial statements for Pure Storage's latest fiscal year;
- (b) Pure Storage's Current Report on Form 8-K filed on March 16, 2017;
- (c) The description of Pure Storage's Class A common stock which is contained in a registration statement on Form 8-A filed on September 25, 2015 (File No. 001-37570) under the Exchange Act of 1934, as amended (the "Exchange Act"), including any amendment or report filed for the purpose of updating such description; and
- (d) All other reports and documents subsequently filed by Pure Storage pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act (other than Current Reports furnished under Item 2.02 or Item 7.01 of Form 8-K and exhibits furnished on such form that relate to such items) on or after the date of this Registration Statement and prior to the filing of a post-effective amendment to this Registration Statement which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference herein and to be a part of this Registration Statement from the date of the filing of such reports and documents. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any subsequently filed document that also is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

Pursuant to General Instruction E to Form S-8, the contents of the Prior Form S-8 are incorporated herein by reference and made a part hereof.

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ITEM 8. EXHIBITS

Exhibit Number	Description	Incorporated by Reference			
		Form	SEC File No.	Exhibit	Filing Date
4.1	<a href="#">Amended and Restated Certificate of Incorporation.</a>	10-Q	001-37570	3.1	12/11/2015
4.2	<a href="#">Amended and Restated Bylaws.</a>	S-1	333-206312	3.4	9/9/2015
4.3	<a href="#">Form of Class A Common Stock Certificate.</a>	S-1	333-206312	4.1	9/9/2015
5.1*	<a href="#">Opinion of Cooley LLP.</a>	-	-	-	-
23.1*	<a href="#">Consent of Cooley LLP (included in Exhibit 5.1).</a>	-	-	-	-
23.2*	<a href="#">Consent of Deloitte &amp; Touche LLP, Independent Registered Public Accounting Firm.</a>	-	-	-	-
24.1*	<a href="#">Power of Attorney (included on the signature page of this Form S-8).</a>	-	-	-	-
99.1	<a href="#">Pure Storage, Inc. 2015 Equity Incentive Plan.</a>	S-1	333-206312	10.4	9/9/2015
99.2	<a href="#">Forms of Grant Notice, Stock Option Agreement and Notice of Exercise under the Pure Storage, Inc. 2015 Equity Incentive Plan.</a>	S-1	333-206312	10.5	9/24/2015
99.3	<a href="#">Form of Restricted Stock Unit Grant Notice and Award Agreement under the Pure Storage, Inc. 2015 Equity Incentive Plan.</a>	10-K	001-37570	10.6	3/25/2016
99.4	<a href="#">Form of Restricted Stock Award Grant Notice and Award Agreement under the Pure Storage, Inc. 2015 Equity Incentive Plan.</a>	8-K	001-37570	10.1	3/16/2018
99.5	<a href="#">Pure Storage, Inc. 2015 Employee Stock Purchase Plan.</a>	S-1	333-206312	10.6	9/9/2015

\* Filed herewith



Signature	Title	Date
<u>/s/ Charles H. Giancarlo</u> Charles H. Giancarlo	Chief Executive Officer and Director <i>(Principal Executive Officer)</i>	March 26, 2018
<u>/s/ Timothy Riitters</u> Timothy Riitters	Chief Financial Officer <i>(Principal Financial and Accounting Officer)</i>	March 26, 2018
<u>/s/ Scott Dietzen</u> Scott Dietzen	Chairman	March 26, 2018
<u>/s/ John Colgrove</u> John Colgrove	Chief Technology Officer and Director	March 26, 2018
<u>/s/ Aneel Bhusri</u> Aneel Bhusri	Director	March 26, 2018
<u>/s/ Mark Garrett</u> Mark Garrett	Director	March 26, 2018
<u>/s/ Anita M. Sands</u> Anita M. Sands	Director	March 26, 2018
<u>/s/ Frank Slotman</u> Frank Slotman	Director	March 26, 2018
<u>/s/ Mike Speiser</u> Mike Speiser	Director	March 26, 2018
<u>/s/ Michelangelo Volpi</u> Michelangelo Volpi	Director	March 26, 2018

March 26, 2018

Pure Storage, Inc.  
650 Castro Street, Suite 400  
Mountain View, California 94041

**Re: Pure Storage, Inc. - Registration Statement on Form S-8**

Ladies and Gentlemen:

We have acted as counsel to Pure Storage, Inc., a Delaware corporation (the "**Company**"), in connection with the filing of a registration statement on Form S-8 (the "**Registration Statement**") with the Securities and Exchange Commission covering the offering of up to 13,258,737 shares of the Company's Class A Common Stock (the "**Common Stock**"), par value \$0.0001 per share, consisting of (i) 11,048,948 shares of Common Stock (the "**2015 EIP Shares**") issuable pursuant to the Company's 2015 Equity Incentive Plan and (ii) 2,209,789 shares of Common Stock (the "**2015 ESPP Shares**" and, together with the 2015 EIP Shares, the "**Shares**") issuable pursuant to the Company's 2015 Employee Stock Purchase Plan (together with the Company's 2015 Equity Incentive Plan, the "**Plans**").

In connection with this opinion, we have examined and relied upon (a) the Registration Statement and related prospectuses, (b) the Company's Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws, each as currently in effect, (c) the Plans and (d) originals or copies certified to our satisfaction of such other records, documents, certificates, memoranda and other instruments as we deem necessary or appropriate to enable us to render the opinion expressed below. We have assumed the genuineness and authenticity of all documents submitted to us as originals and the conformity to originals of all documents submitted to us as copies thereof. As to certain factual matters, we have relied upon a certificate of an officer of the Company and have not sought independently to verify such matters.

Our opinion is expressed only with respect to the General Corporation Law of the State of Delaware. We express no opinion to the extent that any other laws are applicable to the subject matter hereof and express no opinion and provide no assurance as to compliance with any federal or state securities law, rule or regulation.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the Shares, when sold and issued in accordance with the Plans, the Registration Statement and related prospectuses, will be validly issued, fully paid, and nonassessable (except as to shares issued pursuant to certain deferred payment arrangements, which will be fully paid and nonassessable when such deferred payments are made in full).

We consent to the filing of this opinion as an exhibit to the Registration Statement.

Sincerely,

Cooley LLP

By: /s/ Seth J. Gottlieb

Seth J. Gottlieb

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in this Registration Statement on Form S-8 of our reports dated March 26 , 2018, relating to the consolidated financial statements of Pure Storage, Inc. and subsidiaries (the "Company"), and the effectiveness of the Company's internal control over financial reporting, appearing in the Annual Report on Form 10-K of the Company for the year ended January 31, 2018.

*/s/ DELOITTE & TOUCHE LLP*

San Jose, California

March 26, 2018