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

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**FORM 8-A**

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**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES  
PURSUANT TO SECTION 12(b) or (g) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

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**Hercules Capital, Inc.**

(Exact name of registrant as specified in its charter)

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**Maryland**  
(Jurisdiction of Incorporation  
or Organization)

**74-3113410**  
(IRS Employer  
Identification No.)

**400 Hamilton Avenue, Suite 310,**  
**Palo Alto, California**  
(Address of principal executive offices)

**94301**  
(Zip Code)

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

Title of each class  
to be so registered  
5.25% Notes due 2025

Name of each exchange on which  
each class is to be registered  
New York Stock Exchange

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If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d), check the following box.

Securities Act registration statement file number to which this form relates:  
333-214767

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

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## INFORMATION REQUIRED IN REGISTRATION STATEMENT

### Item 1. Description of Registrant's Securities to be Registered

This Form 8-A is being filed in connection with Hercules Capital, Inc.'s, a Maryland corporation (the "**Registrant**"), offering of its 5.25% Notes due 2025 (the "**2025 Notes**"). The 2025 Notes are expected to be listed on the New York Stock Exchange and to trade thereon on or around April 26, 2018 under the trading symbol "HCXZ." As of April 26, 2018, the Registrant had sold and issued \$75,000,000 in aggregate principal amount of the 2025 Notes and granted an over-allotment option of up to \$11,250,000 in aggregate principal amount of the 2025 Notes.

The description of the 2025 Notes is incorporated herein by reference to the information set forth under the heading "Description of Our Debt Securities" in the Registrant's Prospectus included in the Registration Statement on Form N-2 (Registration No. 333-214767) as filed with the Securities and Exchange Commission (the "**SEC**") on September 5, 2017 under the Securities Act of 1933, as amended (the "**Securities Act**"), and the information under the heading "Specific Terms of the Notes and the Offering" in the Registrant's Prospectus Supplement dated April 23, 2018, as filed with the SEC on April 24, 2018 pursuant to Rule 497 under the Securities Act. The foregoing Prospectus and Prospectus Supplement are incorporated herein by reference.

### Item 2. Exhibits

Pursuant to the Instructions as to exhibits for registration statements on Form 8-A, the documents listed below are filed as exhibits to this Registration Statement:

<u>Number</u>	<u>Exhibit</u>
4.1	<a href="#"><u>Indenture, dated as of March 6, 2012, between the Registrant and U.S. Bank National Association (Filed as Exhibit (d)(7) to the Registrant's Post-Effective Amendment No. 1 on Form N-2 (Registration No. 333-179431), as filed on April 17, 2012 with the SEC, and incorporated herein by reference).</u></a>
4.2	<a href="#"><u>Fifth Supplemental Indenture, dated as of April 26, 2018 between the Registrant and U.S. Bank National Association (Filed as Exhibit (d)(27) to the Registrant's Post-Effective Amendment No. 4 on Form N-2 (Registration No. 333-214767), as filed on April 26, 2018 with the SEC, and incorporated herein by reference).</u></a>
4.3	<a href="#"><u>Form of 5.25% Note due 2025 (Filed as Exhibit (d)(28) to the Registrant's Post-Effective Amendment No. 4 on Form N-2 (Registration No. 333-214767), as filed on April 26, 2018 with the SEC, and incorporated herein by reference).</u></a>

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**SIGNATURES**

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: April 26, 2018

**HERCULES CAPITAL, INC.**

By:           /S/ Melanie Grace            
Name: Melanie Grace  
Title: General Counsel, Chief Compliance  
      Officer and Secretary