

Hercules Capital, Inc.
Form 497
August 26, 2016
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**Filed Pursuant to Rule 497
Registration No. 333-203511**

PROSPECTUS SUPPLEMENT

(To prospectus dated August 24, 2016)

Up to 8,000,000 Shares Common Stock

We have entered into an amended and restated equity distribution agreement, dated August 26, 2016, or the Equity Distribution Agreement, with JMP Securities LLC, or JMP Securities, relating to the shares of common stock offered by this prospectus supplement and the accompanying prospectus. Our common stock is listed on the New York Stock Exchange, or NYSE, under the trading symbol HTGC. The last sale price, as reported on NYSE on August 25, 2016, was \$13.54 per share. The net asset value per share of our common stock at June 30, 2016 (the last date prior to the date of this prospectus supplement on which we determined net asset value) was \$9.66.

We are an internally managed, non-diversified, closed-end investment company that has elected to be regulated as a business development company under the Investment Company Act of 1940, as amended. Our investment objective is to maximize our portfolio total return by generating current income from our debt investments and capital appreciation from our warrant and equity-related investments.

The equity distribution agreement provides that we may offer and sell up to 8,000,000 shares of our common stock from time to time through JMP Securities, as our sales agent. Sales of our common stock, if any, under this prospectus supplement and the accompanying prospectus may be made in negotiated transactions or transactions that are deemed to be at the market, as defined in Rule 415 under the Securities Act of 1933, as amended, including sales made directly on the NYSE or similar securities exchange or sales made to or through a market maker other than on an exchange, at prices related to the prevailing market prices or at negotiated prices. As of the date of this prospectus supplement, we have sold approximately 3.2 million shares of our common stock under the equity distribution agreement.

JMP Securities will receive a commission from us to be negotiated from time to time, but in no event in excess of 2.0% of the gross sales price of any shares of our common stock sold through JMP Securities under the equity distribution agreement. JMP Securities is not required to sell any specific number or dollar amount of common stock, but will use its commercially reasonable efforts consistent with its sales and trading practices to sell the shares of our common stock offered by this prospectus supplement and the accompanying prospectus. See Plan of Distribution beginning on page S-14 of this prospectus supplement. The sales price per share of our common stock offered by this prospectus supplement and the accompanying prospectus, less JMP Securities' commission, will not be less than the net asset value per share of our common stock at the time of such sale.

Please read this prospectus supplement, and the accompanying prospectus, before investing, and keep it for future reference. The prospectus supplement and the accompanying prospectus contain important information about us that a prospective investor should know before investing in our common stock. We file annual, quarterly and current reports, proxy statements and other information about us with the Securities and Exchange Commission, or the SEC. This information is available free of charge by contacting us at 400 Hamilton Avenue, Suite 310, Palo Alto,

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California 94301, or by telephone by calling collect at (650) 289-3060 or on our website at www.htgc.com. The information on our website is not incorporated by reference into this prospectus or the accompanying prospectus. The SEC also maintains a website at www.sec.gov that contains such information.

An investment in our common stock involves risks, including the risk of a total loss of investment. In addition, the companies in which we invest are subject to special risks. See the Risk Factors section beginning on page 11 of the accompanying prospectus to read about risks that you should consider before investing in our common stock, including the risk of leverage.

Neither the SEC nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement or the accompanying prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

JMP Securities

The date of this prospectus supplement is August 26, 2016.

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You should rely only on the information contained in this prospectus supplement and the accompanying prospectus. We have not, and JMP Securities has not, authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not, and JMP Securities is not, making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should assume that the information contained in this prospectus supplement and the accompanying prospectus is accurate only as of the date on the front cover of this prospectus supplement and the accompanying prospectus, as applicable. Our business, financial condition, results of operations and prospects may have changed since that date.

This document is in two parts. The first part is this prospectus supplement, which describes the terms of this offering and also adds to and updates information contained in the accompanying prospectus. The second part is the accompanying prospectus, which gives more general information and disclosure. To the extent the information contained in this prospectus supplement differs from the information contained in the accompanying prospectus, the information in this prospectus supplement shall control. You should read this prospectus supplement and the accompanying prospectus together with the additional information described under the heading, *Available Information* before investing in our common stock.

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The following table is intended to assist you in understanding the various costs and expenses that an investor in our common stock will bear directly or indirectly. However, we caution you that some of the percentages indicated in the table below are estimates and may vary. The footnotes to the fee table state which items are estimates. Except where the context suggests otherwise, whenever this prospectus contains a reference to fees or expenses paid by you or us or that we will pay fees or expenses, stockholders will indirectly bear such fees or expenses as investors in Hercules Capital, Inc.

Stockholder Transaction Expenses (as a percentage of the public offering price):	
Sales load (as a percentage of offering price) ⁽¹⁾	2.00%
Offering expenses	1.15% ⁽²⁾
Dividend reinvestment plan fees	⁽³⁾
Total stockholder transaction expenses (as a percentage of the public offering price)	3.15%
Annual Expenses (as a percentage of net assets attributable to common stock):⁽⁴⁾	
Operating expenses	6.15% ⁽⁵⁾⁽⁶⁾
Interest and fees paid in connection with borrowed funds	4.67% ⁽⁷⁾
Total annual expenses	10.82%⁽⁸⁾

- (1) Represents the estimated commission with respect to the shares of common stock being sold in this offering. JMP Securities will be entitled to compensation up to 2.00% of the gross proceeds of the sale of any shares of our common stock under the equity distribution agreement, with the exact amount of such compensation to be mutually agreed upon by the Company and JMP Securities from time to time. There is no guarantee that there will be any sales of our common stock pursuant to this prospectus supplement and the accompanying prospectus.
- (2) The percentage reflects estimated offering expenses of approximately \$1.2 million.
- (3) The expenses associated with the administration of our dividend reinvestment plan are included in Operating expenses. We pay all brokerage commissions incurred with respect to open market purchases, if any, made by the administrator under the plan. For more details about the plan, see Dividend Reinvestment Plan in the accompanying prospectus.
- (4) Net assets attributable to common stock equals the weighted average net assets for the six-months ended June 30, 2016, which is approximately \$721.1 million.
- (5) Operating expenses represent our estimated operating expenses by annualizing our actual operating expenses incurred for the six-months ended June 30, 2016, including all fees and expenses of our consolidated subsidiaries and excluding interests and fees on indebtedness. This percentage for the year ended December 31, 2015 was 6.45%. See Management's Discussion and Analysis and Results of Operations, Management, and Executive Compensation in the accompanying prospectus.
- (6) We do not have an investment adviser and are internally managed by our executive officers under the supervision of our Board of Directors. As a result, we do not pay investment advisory fees, but instead we pay the operating costs associated with employing investment management professionals.
- (7) Interest and fees paid in connection with borrowed funds represents our estimated interest, fees and credit facility expenses by annualizing our actual interest, fees and credit facility expenses incurred for the six-months ended June 30, 2016, including our Wells Facility, Union Bank Facility, the 2019 Notes, the 2024 Notes, the 2021 Asset-Backed Notes and the SBA debentures, each of which is defined herein. This percentage for the year ended December 31, 2015 was 5.10%.
- (8) Total annual expenses is the sum of operating expenses, and interest and fees paid in connection with borrowed funds. This percentage for the year ended December 31, 2015 was 11.55%. Total annual expenses is presented as a percentage of weighted average net assets attributable to common stockholders, because the holders of shares of our common stock (and not the holders of our debt securities or preferred stock, if any) bear all of our fees and expenses, including the fees and expenses of our wholly-owned consolidated subsidiaries, all of which are included in this fee table presentation.

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Example

The following example demonstrates the projected dollar amount of total cumulative expenses that would be incurred over various periods with respect to a \$1,000 hypothetical investment in our common stock, assuming (1) a 2.00% sales load (underwriting discounts and commissions) and offering expenses totaling 1.15%, (2) total net annual expenses of 10.82% of net assets attributable to common shares as set forth in the table above and (3) a 5% annual return. These amounts are based upon our payment of annual operating expenses at the levels set forth in the table above and assume no additional leverage.

	1 Year	3 Years	5 Years	10 Years
You would pay the following expenses on a \$1,000 common stock investment, assuming a 5% annual return	\$ 133	\$ 320	\$ 486	\$ 826

The example and the expenses in the tables above should not be considered a representation of our future expenses, and actual expenses may be greater or lesser than those shown. Moreover, while the example assumes, as required by the applicable rules of the SEC, a 5% annual return, our performance will vary and may result in a return greater or lesser than 5%. In addition, while the example assumes reinvestment of all dividends and distributions at net asset value, participants in our dividend reinvestment plan may receive shares valued at the market price in effect at that time. This price may be at, above or below net asset value. See **Dividend Reinvestment Plan** in the accompanying prospectus for additional information regarding our dividend reinvestment plan.

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FORWARD- LOOKING STATEMENTS

The matters discussed in this prospectus supplement and the accompanying prospectus, as well as in future oral and written statements by management of Hercules Capital, Inc., that are forward-looking statements are based on current management expectations that involve substantial risks and uncertainties which could cause actual results to differ materially from the results expressed in, or implied by, these forward-looking statements. Forward-looking statements relate to future events or our future financial performance. We generally identify forward-looking statements by terminology such as may, will, should, expects, plans, anticipates, could, intends, target, project, believes, estimates, predicts, potential or continue or the negative of these terms or other similar expressions. Important assumptions include ability to originate new investments, achieve certain margins and levels of profitability, the availability of additional capital, and the ability to maintain certain debt to asset ratios. In light of these and other uncertainties, the inclusion of a projection or forward-looking statement in this prospectus should not be regarded as a representation by us that our plans or objectives will be achieved. The forward-looking statements contained in this prospectus supplement and the accompanying prospectus include statements as to:

our future operating results;

our business prospects and the prospects of our prospective portfolio companies;

the impact of investments that we expect to make;

our informal relationships with third parties including in the venture capital industry;

the expected market for venture capital investments and our addressable market;

the dependence of our future success on the general economy and its impact on the industries in which we invest;

our ability to access debt markets and equity markets;

the ability of our portfolio companies to achieve their objectives;

our expected financings and investments;

our regulatory structure and tax status;

our ability to operate as a business development company, a small business investment company and a regulated investment company, or RIC;

the adequacy of our cash resources and working capital;

the timing of cash flows, if any, from the operations of our portfolio companies;

the timing, form and amount of any dividend distributions;

the impact of fluctuations in interest rates on our business;

the valuation of any investments in portfolio companies, particularly those having no liquid trading market; and

our ability to recover unrealized losses.

For a discussion of factors that could cause our actual results to differ from forward-looking statements contained in this prospectus supplement and the accompanying prospectus, please see the discussion under "Risk Factors" in the accompanying prospectus. You should not place undue reliance on these forward-looking statements. The forward-looking statements made in this prospectus relate only to events as of the date on which the statements are made. We undertake no obligation to update any forward-looking statement to reflect events or circumstances occurring after the date of this prospectus.

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Industry and Market Data

We have compiled certain industry estimates presented in this prospectus supplement and the accompanying prospectus from internally generated information and data. While we believe our estimates are reliable, they have not been verified by any independent sources. The estimates are based on a number of assumptions, including increasing investment in venture capital and private equity-backed companies. Actual results may differ from projections and estimates, and this market may not grow at the rates projected, or at all. If this market fails to grow at projected rates, our business and the market price of our securities, including our common stock, could be materially adversely affected.

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PROSPECTUS SUPPLEMENT SUMMARY

This summary highlights some of the information in this prospectus supplement and may not contain all of the information that is important to you. For a more complete understanding of this offering, we encourage you to read this entire prospectus supplement and the accompanying prospectus and the documents that are referenced in this prospectus supplement and the accompanying prospectus, together with any accompanying supplements. In this prospectus supplement and the accompanying prospectus, unless the context otherwise requires, the Company, Hercules Capital, we, us and our refer to Hercules Capital, Inc. and our wholly-owned subsidiaries and their affiliated securitization trusts.

Our Company

We are a specialty finance company focused on providing senior secured loans to high-growth, innovative venture capital-backed companies in a variety of technology, life sciences, and sustainable and renewable technology industries. Our investment objective is to maximize our portfolio total return by generating current income from our debt investments and capital appreciation from our equity-related investments. We are an internally-managed, non-diversified closed-end investment company that has elected to be regulated as a business development company under the Investment Company Act of 1940, or the 1940 Act.

As of June 30, 2016, our total assets were approximately \$1.4 billion, of which our investments comprised \$1.3 billion at fair value and \$1.4 billion at cost. Since inception through June 30, 2016, we have made debt and equity commitments of almost \$6.1 billion to our portfolio companies.

We also make investments in qualifying small businesses through our two wholly owned small business investment companies, or SBICs. Our SBIC subsidiaries, Hercules Technology II, L.P., or HT II, and Hercules Technology III, L.P., or HT III, hold approximately \$112.9 million and \$286.3 million in assets, respectively, and accounted for approximately 6.6% and 16.7% of our total assets, respectively, prior to consolidation at June 30, 2016. As of June 30, 2016, the maximum statutory limit on the dollar amount of combined outstanding SBA guaranteed debentures is \$350.0 million, subject to periodic adjustments by the SBA. In aggregate, at June 30, 2016, with our net investment of \$118.5 million, HT II and HT III have the capacity to issue a total of \$190.2 million of SBA-guaranteed debentures, subject to SBA approval. At June 30, 2016, we have issued \$190.2 million in SBA-guaranteed debentures in our SBIC subsidiaries. See Regulation Small Business Administration Regulations in the accompanying prospectus for additional information regarding our SBIC subsidiaries.

Our portfolio is comprised of, and we anticipate that our portfolio will continue to be comprised of, investments primarily in technology related companies at various stages of their development. Consistent with requirements under the 1940 Act, we invest primarily in United-States based companies and to a lesser extent in foreign companies. See Regulation Qualifying Assets in the accompanying prospectus. As of June 30, 2016, our proprietary structured query language-based (SQL) database system included approximately 45,000 technology-related companies and approximately 9,200 venture capital firms, private equity sponsors/investors, as well as various other industry contacts. Our principal executive office is located in Palo Alto, CA, and we have additional offices in Boston, MA, New York, NY, Washington, DC, Santa Monica, CA, Hartford, CT, and San Diego, CA.

Our goal is to be the leading structured debt financing provider for venture capital-backed companies in technology-related industries requiring sophisticated and customized financing solutions. Our strategy is to evaluate and invest in a broad range of technology-related industries including technology, drug discovery and development, biotechnology, life sciences, healthcare, and sustainable and renewable technology and to offer a full suite of growth capital products. We invest primarily in structured debt with warrants and, to a lesser extent, in senior debt and equity investments. We invest primarily in private companies but also have investments in public companies.

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We use the term “structured debt with warrants” to refer to any debt investment, such as a senior or subordinated secured loan, that is coupled with an equity component, including warrants, options or other rights to purchase common or preferred stock. Our structured debt with warrants investments typically are secured by some or all of the assets of the portfolio company.

We focus our investments in companies active in the technology industry sub-sectors characterized by products or services that require advanced technologies, including, but not limited to, computer software and hardware, networking systems, semiconductors, semiconductor capital equipment, information technology infrastructure or services, internet consumer and business services, telecommunications, telecommunications equipment, renewable or alternative energy, media and life sciences. Within the life sciences sub-sector, we generally focus on medical devices, bio-pharmaceutical, drug discovery, drug delivery, health care services and information systems companies. Within the sustainable and renewable technology sub-sector, we focus on sustainable and renewable energy technologies and energy efficiency and monitoring technologies. We refer to all of these companies as “technology-related” companies and intend, under normal circumstances, to invest at least 80% of the value of our total assets in such businesses.

Our investment objective is to maximize our portfolio total return by generating current income from our debt investments and capital appreciation from our warrant and equity-related investments. Our primary business objectives are to increase our net income, net operating income and net asset value by investing in structured debt with warrants and equity of venture capital-backed companies in technology-related industries with attractive current yields and the potential for equity appreciation and realized gains. Our equity ownership in our portfolio companies may exceed 25% of the voting securities of such companies, which represents a controlling interest under the 1940 Act. In some cases, we receive the right to make additional equity investments in our portfolio companies in connection with future equity financing rounds. Capital that we provide directly to venture capital-backed companies in technology-related industries is generally used for growth and general working capital purposes as well as in select cases for acquisitions or recapitalizations.

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As of June 30, 2016, our investment professionals, including Manuel A. Henriquez, our co-founder, Chairman, President and Chief Executive Officer, are currently comprised of 34 professionals who have, on average, more than 15 years of experience in venture capital, structured finance, commercial lending or acquisition finance with the types of technology-related companies that we are targeting. We believe that we can leverage the experience and relationships of our management team to successfully identify attractive investment opportunities, underwrite prospective portfolio companies and structure customized financing solutions.

Our Market Opportunity

We believe that technology-related companies compete in one of the largest and most rapidly growing sectors of the U.S. economy and that continued growth is supported by ongoing innovation and performance improvements in technology products as well as the adoption of technology across virtually all industries in response to competitive pressures. We believe that an attractive market opportunity exists for a specialty finance company focused primarily on investments in structured debt with warrants in technology-related companies for the following reasons:

Technology-related companies have generally been underserved by traditional lending sources;

Unfulfilled demand exists for structured debt financing to technology-related companies due to the complexity of evaluating risk in these investments; and

Structured debt with warrants products are less dilutive and complement equity financing from venture capital and private equity funds.

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Technology-Related Companies are Underserved by Traditional Lenders. We believe many viable technology-related companies backed by financial sponsors have been unable to obtain sufficient growth financing from traditional lenders, including financial services companies such as commercial banks and finance companies because traditional lenders have continued to consolidate and have adopted a more risk-averse approach to lending. More importantly, we believe traditional lenders are typically unable to underwrite the risk associated with these companies effectively.

The unique cash flow characteristics of many technology-related companies typically include significant research and development expenditures and high projected revenue growth thus often making such companies difficult to evaluate from a credit perspective. In addition, the balance sheets of these companies often include a disproportionately large amount of intellectual property assets, which can be difficult to value. Finally, the speed of innovation in technology and rapid shifts in consumer demand and market share add to the difficulty in evaluating technology-related companies.

Due to the difficulties described above, we believe traditional lenders generally refrain from entering the structured debt financing marketplace, instead preferring the risk-reward profile of asset based lending. Traditional lenders generally do not have flexible product offerings that meet the needs of technology-related companies. The financing products offered by traditional lenders typically impose on borrowers many restrictive covenants and conditions, including limiting cash outflows and requiring a significant depository relationship to facilitate rapid liquidation.

Unfulfilled Demand for Structured Debt Financing to Technology-Related Companies. Private debt capital in the form of structured debt financing from specialty finance companies continues to be an important source of funding for technology-related companies. We believe that the level of demand for structured debt financing is a function of the level of annual venture equity investment activity.

We believe that demand for structured debt financing is currently underserved. The venture capital market for the technology-related companies in which we invest has been active. Therefore, to the extent we have capital available, we believe this is an opportune time to be active in the structured lending market for technology-related companies.

Structured Debt with Warrants Products Complement Equity Financing From Venture Capital and Private Equity Funds. We believe that technology-related companies and their financial sponsors will continue to view structured debt securities as an attractive source of capital because it augments the capital provided by venture capital and private equity funds. We believe that our structured debt with warrants product provides access to growth capital that otherwise may only be available through incremental investments by existing equity investors. As such, we provide portfolio companies and their financial sponsors with an opportunity to diversify their capital sources. Generally, we believe many technology-related companies at all stages of development target a portion of their capital to be debt in an attempt to achieve a higher valuation through internal growth. In addition, because financial sponsor-backed companies have reached a more mature stage prior to reaching a liquidity event, we believe our investments could provide the debt capital needed to grow or recapitalize during the extended period sometimes required prior to liquidity events.

Our Business Strategy

Our strategy to achieve our investment objective includes the following key elements:

Leverage the Experience and Industry Relationships of Our Management Team and Investment Professionals. We have assembled a team of experienced investment professionals with extensive experience as venture capitalists, commercial lenders, and originators of structured debt and equity investments in technology-related companies.

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Mitigate Risk of Principal Loss and Build a Portfolio of Equity-Related Securities. We expect that our investments have the potential to produce attractive risk-adjusted returns through current income, in the form of interest and fee income, as well as capital appreciation from warrant and equity-related securities. We believe that we can mitigate the risk of loss on our debt investments through the combination of loan principal amortization, cash interest payments, relatively short maturities (typically between 24 – 48 months), security interests in the assets of our portfolio companies, and on select investment covenants requiring prospective portfolio companies to have certain amounts of available cash at the time of our investment and the continued support from a venture capital or private equity firm at the time we make our investment.

Provide Customized Financing Complementary to Financial Sponsors' Capital. We offer a broad range of investment structures and possess expertise and experience to effectively structure and price investments in technology-related companies.

Invest at Various Stages of Development. We provide growth capital to technology-related companies at all stages of development, including select publicly listed companies and select special opportunity lower middle market companies that require additional capital to fund acquisitions, recapitalizations and refinancings and established-stage companies.

Benefit from Our Efficient Organizational Structure. We believe that the perpetual nature of our corporate structure enables us to be a long-term partner for our portfolio companies in contrast to traditional investment funds, which typically have a limited life. In addition, because of our access to the equity markets, we believe that we may benefit from a lower cost of capital than that available to private investment funds.

Deal Sourcing Through Our Proprietary Database. We have developed a proprietary and comprehensive SQL database system to track various aspects of our investment process including sourcing, originations, transaction monitoring and post-investment performance.

General Information

Our principal executive offices are located at 400 Hamilton Avenue, Suite 310, Palo Alto, California 94301, and our telephone number is (650) 289-3060. We also have offices in Boston, MA, New York, NY, Washington, DC, Santa Monica, CA, Hartford, CT, and San Diego, CA. We maintain a website on the Internet at www.htgc.com. We make available, free of charge, on our website our proxy statement, annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Information contained in our website is not incorporated by reference into this prospectus supplement or the accompanying prospectus, and you should not consider that information to be part of this prospectus supplement or the accompanying prospectus.

We file annual, quarterly and current periodic reports, proxy statements and other information with the SEC under the Securities Exchange Act of 1934, which we refer to as the Exchange Act. This information is available at the SEC's public reference room at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information about the operation of the SEC's public reference room by calling the SEC at (202) 551-8090. In addition, the SEC maintains an Internet website, at www.sec.gov, that contains reports, proxy and information statements, and other information regarding issuers, including us, who file documents electronically with the SEC.

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THE OFFERING

Common stock offered by us	Up to 8,000,000 shares of our common stock
Common stock outstanding prior to this offering	74,867,174 shares
Manner of offering	At the market offering that may be made from time to time through JMP Securities, as sales agent, using commercially reasonable efforts. See Plan of Distribution in this prospectus supplement.
Use of proceeds	We expect to use the net proceeds from this offering to fund investments in debt and equity securities in accordance with our investment objective and for other general corporate purposes. Pending such use, we will invest a portion of the net proceeds of this offering in short-term investments, such as cash and cash equivalents, which we expect will earn yields substantially lower than the interest income that we anticipate receiving in respect of investments in accordance with our investment objective. See Use of Proceeds in this prospectus supplement.
Distribution	To the extent that we have income available, we intend to distribute quarterly dividends to our stockholders. The amount of our dividends, if any, will be determined by our Board of Directors. Any dividends to our stockholders will be declared out of assets legally available for distribution. See Price Range of Common Stock and Distributions in the accompanying prospectus.
Taxation	We have elected to be treated for federal income tax purposes as a RIC under Subchapter M of the Code. As a RIC, we generally do not have to pay corporate-level federal income taxes on any ordinary income or capital gains that we distribute to our stockholders as dividends. To maintain our RIC tax status, we must meet specified source-of-income and asset diversification requirements and distribute annually at least 90% of our ordinary income and realized net short-term capital gains in excess of realized net long-term capital losses, if any. See Price Range of Common Stock and Distributions in the accompanying prospectus and Certain United States Federal Income Tax Considerations in the accompanying prospectus.
New York Stock Exchange symbol	HTGC
Risk factors	An investment in our common stock is subject to risks and involves a heightened risk of total loss of investment. In addition, the companies in which we invest are subject to special risks. See Risk Factors beginning on page 11 of the accompanying prospectus to

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read about factors you should consider, including the risk of leverage, before investing in our common stock.

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USE OF PROCEEDS

Overview

Sales of our common stock, if any, under this prospectus supplement and the accompanying prospectus may be made in negotiated transactions or transactions that are deemed to be at the market as defined in Rule 415 under the Securities Act, including sales made directly on the NYSE or sales made to or through a market maker other than on an exchange. There is no guarantee that there will be any sales of our common stock pursuant to this prospectus supplement and the accompanying prospectus. Actual sales, if any, of our common stock under this prospectus supplement and the accompanying prospectus may be less than as set forth in this paragraph depending on, among other things, the market price of our common stock at the time of any such sale. As a result, the actual net proceeds we receive may be more or less than the amount of net proceeds estimated in this prospectus supplement. Assuming the sale of the remaining 4,758,233 shares of common stock offered under this prospectus supplement and the accompanying prospectus, at the last reported sale price of \$13.54 per share for our common stock on the NYSE as of August 25, 2016, we estimate that the net proceeds of this offering will be approximately \$62.9 million after deducting the estimated sales commission payable to JMP Securities and our estimated offering expenses.

We expect to use the net proceeds from this offering to fund investments in debt and equity securities in accordance with our investment objective and for other general corporate purposes.

We intend to seek to invest the net proceeds received in this offering as promptly as practicable after receipt thereof consistent with our investment objective. We anticipate that substantially all of the net proceeds from any offering of our securities will be used as described above within three to six months, depending on market conditions. We anticipate that the remainder will be used for working capital and general corporate purposes, including potential payments or distributions to shareholders. Pending such use, we will invest a portion of the net proceeds of this offering in short-term investments, such as cash and cash equivalents, which we expect will earn yields substantially lower than the interest income that we anticipate receiving in respect of investments in accordance with our investment objective.

Status of the Offering

On August 16, 2013, we established an at-the-market program to which this prospectus supplement relates and through which we may sell, from time to time and at our sole discretion up to 8,000,000 shares of our common stock. On March 7, 2016 and then, again, on August 26, 2016, we entered into an amended and restated equity distribution agreement, with JMP Securities, or the Equity Distribution Agreement, to continue the at-the-market program. During the period from August 16, 2013 through the date of this prospectus supplement, 3,241,767 shares of common stock have been issued and sold pursuant to the Equity Distribution Agreement and 4,758,233 shares of common stock remain available for sale. Gross proceeds raised through the date of this prospectus were approximately \$41.3 million based on an average sale price of \$12.74 per share, offset by related underwriting fees and offering expenses of approximately \$1.6 million for net proceeds of approximately \$39.7 million.

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Our common stock is traded on the NYSE under the symbol HTGC.

The following table sets forth the range of high and low sales prices of our common stock, the sales price as a percentage of NAV and the dividend distributions declared by us for each fiscal quarter. The stock quotations are interdealer quotations and do not include markups, markdowns or commissions.

	NAV ⁽¹⁾	Price Range		Premium/ Discount of High Sales Price to NAV	Premium/ Discount of Low Sales Price to NAV	Cash Dividend Distribution per Share
		High	Low			
2014						
First quarter	\$ 10.58	\$ 15.27	\$ 13.24	44.3%	25.1%	\$ 0.310
Second quarter	\$ 10.42	\$ 15.54	\$ 12.75	49.1%	22.4%	\$ 0.310
Third quarter	\$ 10.22	\$ 16.24	\$ 14.16	58.9%	38.6%	\$ 0.310
Fourth quarter	\$ 10.18	\$ 15.82	\$ 13.16	55.4%	29.3%	\$ 0.310
2015						
First quarter	\$ 10.47	\$ 15.27	\$ 13.47	45.8%	28.7%	\$ 0.310
Second quarter	\$ 10.26	\$ 13.37	\$ 11.25	30.3%	9.6%	\$ 0.310
Third quarter	\$ 10.02	\$ 12.23	\$ 9.99	22.1%	-0.3%	\$ 0.310
Fourth quarter	\$ 9.94	\$ 12.44	\$ 10.23	25.2%	2.9%	\$ 0.310
2016						
First quarter	\$ 9.81	\$ 12.39	\$ 10.03	26.3%	2.2%	\$ 0.310
Second quarter	\$ 9.66	\$ 12.43	\$ 11.74	28.7%	21.6%	\$ 0.310
Third quarter (through August 25, 2016)	*	\$ 14.00	\$ 12.42	*	*	**

(1) Net asset value per share is generally determined as of the last day in the relevant quarter and therefore may not reflect the NAV per share on the date of the high and low sales prices. The NAVs shown are based on outstanding shares at the end of each period.

* Net asset value has not yet been calculated for this period.

** Cash dividend distribution per share has not yet been determined for this period.

The last reported price for our common stock on August 25, 2016 was \$13.54 per share.

Shares of business development companies may trade at a market price that is less than the value of the net assets attributable to those shares. The possibility that our shares of common stock will trade at a discount from NAV or at premiums that are unsustainable over the long term are separate and distinct from the risk that our NAV will decrease. At times, our shares of common stock have traded at a premium to NAV and at times our shares of common stock have traded at a discount to the net assets attributable to those shares. It is not possible to predict whether the shares offered hereby will trade at, above, or below NAV.

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The equity distribution agreements provide that we may offer and sell up to 8,000,000 shares of our common stock from time to time through JMP Securities, as our sales agent for the offer and sale of such common stock. The table below assumes that we will sell the remaining 4,758,233 shares at a price of \$13.54 per share (the last reported sale price per share of our common stock on the NYSE on August 25, 2016) but there is no guarantee that there will be any sales of our common stock pursuant to this prospectus supplement and the accompanying prospectus. Actual sales, if any, of our common stock under this prospectus supplement and the accompanying prospectus may be less than as set forth in the table below. In addition, the price per share of any such sale may be greater or less than \$13.54, depending on the market price of our common stock at the time of any such sale. The following table sets forth our capitalization as of June 30, 2016:

on an actual basis; and

on an as adjusted basis giving effect to the transactions noted above and the assumed sale of 4,758,233 shares of our common stock at a price of \$13.54 per share (the last reported sale price per share of our common stock on the NYSE on August 25, 2016) less commissions and expenses.

This table should be read in conjunction with Use of Proceeds in this prospectus supplement and Management's Discussion and Analysis of Financial Condition and Results of Operations and our financial statements and notes thereto included in the accompanying prospectus. The adjusted information is illustrative only.

	As of June 30, 2016	
	Actual	As Adjusted
	(in thousands)	
Investments at fair value	\$ 1,302,778	\$ 1,302,778
Cash and cash equivalents	\$ 59,715	\$ 122,661
Debt:		
Accounts payable and accrued liabilities	\$ 16,681	\$ 16,681
Long-term SBA debentures	187,165	187,165
2019 Notes	108,499	108,499
2021 Asset-Backed Notes	127,461	127,461
2024 Notes	237,570	237,570
Total debt	\$ 677,376	\$ 677,376
Stockholders' equity:		
Common stock, par value \$0.001 per share; 200,000,000 shares authorized; 74,320,335 shares issued and outstanding, actual, 79,078,568 shares issued and outstanding, as adjusted, respectively	\$ 75	\$ 80
Capital in excess of par value	774,339	837,280
Unrealized depreciation on investments	(68,046)	(68,046)
Accumulated realized gains on investments	23,550	23,550
Distributions in excess of investment income	(12,123)	(12,123)
Total stockholders' equity	\$ 717,795	\$ 780,741
Total capitalization	\$ 1,395,171	\$ 1,458,117

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PLAN OF DISTRIBUTION

JMP Securities is acting as our sales agent in connection with the offer and sale of shares of our common stock pursuant to this prospectus supplement and the accompanying prospectus. Upon written instructions from us, JMP Securities will use its commercially reasonable efforts consistent with its sales and trading practices to sell, as our sales agent, our common stock under the terms and subject to the conditions set forth in our amended and restated equity distribution agreement with JMP Securities dated August 26, 2016. We will instruct JMP Securities as to the amount of common stock to be sold by it. We may instruct JMP Securities not to sell common stock if the sales cannot be effected at or above the price designated by us in any instruction. The sales price per share of our common stock offered by this prospectus supplement and the accompanying prospectus, less JMP Securities' commission, will not be less than the net asset value per share of our common stock at the time of such sale. We or JMP Securities may suspend the offering of shares of common stock upon proper notice and subject to other conditions.

Sales of our common stock, if any, under this prospectus supplement and the accompanying prospectus may be made in negotiated transactions or transactions that are deemed to be at the market, as defined in Rule 415 under the Securities Act, including sales made directly on the NYSE or similar securities exchange or sales made to or through a market maker other than on an exchange at prices related to the prevailing market prices or at negotiated prices.

JMP Securities will provide written confirmation of a sale to us no later than the opening of the trading day on the NYSE following each trading day in which shares of our common stock are sold under the equity distribution agreement. Each confirmation will include the number of shares of common stock sold on the preceding day, the net proceeds to us and the compensation payable by us to JMP Securities in connection with the sales.

JMP Securities will receive a commission from us to be negotiated from time to time but in no event in excess of 2.0% of the gross sales price of any shares of our common stock sold through JMP Securities under the equity distribution agreement. We estimate that the total expenses for the offering, excluding compensation payable to JMP Securities under the terms of the equity distribution agreement, will be approximately \$1.2 million (including up to \$10,000 in reimbursement of the underwriters' counsel fees in connection with the review of the terms of the offering by the Financial Industry Regulatory Authority, Inc.).

Settlement for sales of shares of common stock will occur on the third trading day following the date on which such sales are made, or on some other date that is agreed upon by us and JMP Securities in connection with a particular transaction, in return for payment of the net proceeds to us. There is no arrangement for funds to be received in an escrow, trust or similar arrangement.

We will report at least quarterly the number of shares of our common stock sold through JMP Securities under the equity distribution agreement and the net proceeds to us.

In connection with the sale of the common stock on our behalf, JMP Securities may be deemed to be an underwriter within the meaning of the Securities Act, and the compensation of JMP Securities may be deemed to be underwriting commissions or discounts. We have agreed to provide indemnification and contribution to JMP Securities against certain civil liabilities, including liabilities under the Securities Act.

The offering of our shares of common stock pursuant to the equity distribution agreement will terminate upon the earlier of (i) the sale of all common stock subject to the equity distribution agreement or (ii) the termination of the equity distribution agreement. The equity distribution agreement may be terminated by us in our sole discretion under the circumstances specified in the equity distribution agreement by giving notice to JMP Securities. In addition, JMP Securities may terminate the equity distribution agreement under the circumstances specified in the equity distribution agreement by giving notice to us.

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Potential Conflicts of Interest

JMP Securities and its affiliates have provided, or may in the future provide, various investment banking, commercial banking, financial advisory, brokerage and other services to us and our affiliates for which services they have received, and may in the future receive, customary fees and expense reimbursement. JMP Securities and its affiliates may, from time to time, engage in transactions with and perform services for us in the ordinary course of their business for which they may receive customary fees and reimbursement of expenses. In the ordinary course of their various business activities, JMP Securities and its affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers and such investment and securities activities may involve securities and/or instruments of our company.

The principal business address of JMP Securities is 600 Montgomery Street, San Francisco, CA 94111.

SUPPLEMENT TO CERTAIN UNITED STATES INCOME TAX CONSIDERATIONS

The following summary of U.S. federal income tax considerations supplements the discussion set forth under the heading "Certain United States Federal Income Tax Considerations" in the accompanying prospectus and is subject to the qualifications and assumptions set forth therein.

The recently enacted Protecting Americans from Tax Hikes Act of 2015, or "PATH Act," has (i) made permanent the rules that exempt certain non-U.S. stockholders from withholding with respect to interest-related dividends or short-term capital gains dividends, as described under the heading "Certain United States Federal Income Tax Considerations Taxation of Non-U.S. Stockholders" in the accompanying prospectus, and (ii) reduced the recognition period (from ten years to five years) during which we could be subject to corporate-level tax on built-in gains if we were to fail to qualify as a RIC and subsequently requalify, as described under the heading "Certain United States Federal Income Tax Considerations Failure to Qualify as a Regulated Investment Company" in the accompanying prospectus.

In addition, with respect to the legislation commonly referred to as the "Foreign Account Tax Compliance Act," or "FATCA," that is discussed under the heading "Certain United States Federal Income Tax Considerations Taxation of Non-U.S. Stockholders" in the accompanying prospectus, the Internal Revenue Service has issued a Notice that extends the date after which withholding begins for gross proceeds from December 31, 2016, to December 31, 2018.

LEGAL MATTERS

Certain legal matters in connection with the securities offered hereby will be passed upon for us by Dechert LLP, Washington, DC. Certain legal matters in connection with the securities offered hereby will be passed upon for JMP Securities by Skadden, Arps, Slate, Meagher & Flom LLP.

EXPERTS

The consolidated financial statements as of December 31, 2015 and 2014 and for each of the three years in the period ended December 31, 2015 and management's assessment of the effectiveness of internal control over financial reporting (which is included in Management's Report on Internal Control over Financial Reporting) as of December 31, 2015 included in the accompanying prospectus have been so included in reliance on the report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

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AVAILABLE INFORMATION

We have filed with the SEC a registration statement on Form N-2, together with all amendments and related exhibits, under the Securities Act, with respect to our securities offered by this prospectus supplement and the accompanying prospectus. The registration statement contains additional information about us and our securities being offered by this prospectus supplement and the accompanying prospectus.

We file annual, quarterly and current periodic reports, proxy statements and other information with the SEC under the Exchange Act. You may inspect and copy these reports, proxy statements and other information, as well as the registration statement of which this prospectus supplement and accompanying prospectus form a part and the related exhibits and schedules, at the Public Reference Room of the SEC at 100 F Street, N.E., Washington, D.C. 20549-0102. You may obtain information on the operation of the Public Reference Room by calling the SEC at 202-551-8090. The SEC maintains an Internet website that contains reports, proxy and information statements and other information filed electronically by us with the SEC which are available on the SEC's Internet website at <http://www.sec.gov>. Copies of these reports, proxy and information statements and other information may be obtained, after paying a duplicating fee, by electronic request at the following E-mail address: publicinfo@sec.gov, or by writing the SEC's Public Reference Section, Washington, D.C. 20549-0102.

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\$500,000,000

Common Stock

Preferred Stock

Warrants

Subscription Rights

Debt Securities

This prospectus relates to the offer, from time to time, in one or more offerings or series, up to \$500,000,000 of shares of our common stock, par value \$0.001 per share, preferred stock, par value \$0.001 per share, warrants representing rights to purchase shares of our common stock, preferred stock or debt securities, subscription rights or debt securities, which we refer to, collectively, as the securities. The preferred stock, debt securities, subscription rights and warrants offered hereby may be convertible or exchangeable into shares of our common stock. We may sell our securities through underwriters or dealers, at-the-market to or through a market maker into an existing trading market or otherwise directly to one or more purchasers, including existing stockholders in a rights offering, or through agents or through a combination of methods of sale, including auctions. The identities of such underwriters, dealers, market makers or agents, as the case may be, will be described in one or more supplements to this prospectus. The securities may be offered at prices and on terms to be described in one or more supplements to this prospectus.

In the event we offer common stock, the offering price per share will not be less than the net asset value per share of our common stock at the time we make the offering except (1) in connection with a rights offering to our existing stockholders, (2) with the consent of the holders of the majority of our voting securities and approval of our Board of Directors, or (3) under such circumstances as the Securities and Exchange Commission may permit. See Risk Factors for more information.

We are a specialty finance company focused on providing senior secured loans to high-growth, innovative venture capital-backed companies in a variety of technology, life sciences and sustainable and renewable technology industries. We primarily finance privately-held companies backed by leading venture capital and private equity firms and publicly-traded companies that lack access to public capital or are sensitive to equity ownership dilution. We source our investments through our principal office located in Palo Alto, CA, as well as through additional offices in Boston, MA, New York, NY, Washington, DC, Santa Monica, CA, Hartford, CT and San Diego, CA. Our goal is to be the leading structured debt financing provider for venture capital-backed companies in technology-related industries requiring sophisticated and customized financing solutions. We invest primarily in structured debt with warrants and, to a lesser extent, in senior debt and equity investments. We use the term structured debt with warrants to refer to any debt investment, such as a senior or subordinated secured loan, that is coupled with an equity component, including warrants, options or other rights to purchase common or preferred stock. Our structured debt with warrants investments typically are secured by some or all of the assets of the portfolio company. We invest primarily in private companies but also have investments in public companies.

Our investment objective is to maximize our portfolio total return by generating current income from our debt investments and capital appreciation from our equity-related investments. We are an internally-managed, non-diversified closed-end investment company that has elected to be regulated as a business development company under the Investment Company Act of 1940, as amended.

Our common stock is traded on the New York Stock Exchange, or NYSE, under the symbol HTGC. On August 16, 2016, the last reported sale price of a share of our common stock on the NYSE, was \$13.58. The net asset value per share of our common stock at June 30, 2016 (the last date prior to the date of this prospectus on which we determined net asset value) was \$9.66.

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An investment in our securities may be speculative and involves risks including a heightened risk of total loss of investment. In addition, the companies in which we invest are subject to special risks. See Risk Factors beginning on page 11 to read about risks that you should consider before investing in our securities, including the risk of leverage.

Please read this prospectus before investing and keep it for future reference. It contains important information about us that a prospective investor ought to know before investing in our securities. We file annual, quarterly and current reports, proxy statements and other information about us with the Securities and Exchange Commission. The information is available free of charge by contacting us at 400 Hamilton Avenue, Suite 310, Palo Alto, California 94301 or by telephone calling collect at (650) 289-3060 or on our website at www.htgc.com. The SEC also maintains a website at www.sec.gov that contains such information.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

This prospectus may not be used to consummate sales of any securities unless accompanied by a prospectus supplement.

The date of this prospectus is August 24, 2016

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You should rely only on the information contained in this prospectus. We have not authorized any dealer, salesperson or other person to provide you with different information or to make representations as to matters not stated in this prospectus. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus is not an offer to sell, or a solicitation of an offer to buy, any securities by any person in any jurisdiction where it is unlawful for that person to make such an offer or solicitation or to any person in any jurisdiction to whom it is unlawful to make such an offer or solicitation. The information in this prospectus is accurate only as of its date, and under no circumstances should the delivery of this prospectus or the sale of any securities imply that the information in this prospectus is accurate as of any later date or that the affairs of Hercules Capital, Inc. have not changed since the date hereof. This prospectus will be updated to reflect material changes.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we have filed with the Securities and Exchange Commission using the shelf registration process. Under the shelf registration process, which constitutes a delayed offering in reliance on Rule 415 under the Securities Act of 1933, as amended (the Securities Act), we may offer, from time to time, up to \$500,000,000 of our common stock, preferred stock, warrants representing rights to purchase shares of our common stock, preferred stock or debt securities, subscription rights or debt securities on the terms to be determined at the time of the offering. We may sell our securities through underwriters or dealers, at-the-market to or through a market maker, into an existing trading market or otherwise directly to one or more purchasers, including existing stockholders in a rights offering, or through agents or through a combination of methods of sale. The identities of such underwriters, dealers, market makers or agents, as the case may be, will be described in one or more supplements to this prospectus. The securities may be offered at prices and on terms described in one or more supplements to this prospectus. This prospectus provides you with a general description of the securities that we may offer. Each time we use this prospectus to offer securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. Please carefully read this prospectus and any such supplements together with the additional information described under Where You Can Find Additional Information in the Summary and Risk Factors sections before you make an investment decision.

A prospectus supplement may also add to, update or change information contained in this prospectus.

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SUMMARY

This summary highlights some of the information in this prospectus and may not contain all of the information that is important to you. For a more complete understanding of this offering, we encourage you to read this entire prospectus and the documents that are referenced in this prospectus, together with any accompanying supplements. In this prospectus, unless the context otherwise requires, the Company, Hercules, HTGC, we, us and our refer to Hercules Capital, Inc. and its wholly owned subsidiaries and its affiliated securitization trusts on or after February 25, 2016 and Hercules Technology Growth Capital, Inc. and its wholly owned subsidiaries and its affiliated securitization trusts prior to February 25, 2016 unless the context otherwise requires.

Our Company

We are a specialty finance company focused on providing senior secured loans to high-growth, innovative venture capital-backed companies in a variety of technology, life sciences and sustainable and renewable technology industries. Our investment objective is to maximize our portfolio total return by generating current income from our debt investments and capital appreciation from our warrant and equity-related investments. We are an internally-managed, non-diversified closed-end investment company that has elected to be regulated as a business development company under the Investment Company Act of 1940, as amended, or the 1940 Act. Effective January 1, 2006, we elected to be treated for tax purposes as a regulated investment company, or RIC, under the Internal Revenue Code of 1986, as amended, or the Code.

As of June 30, 2016, our total assets were approximately \$1.4 billion, of which our investments comprised \$1.3 billion at fair value and \$1.4 billion at cost. Since inception through June 30, 2016, we have made debt and equity commitments of almost \$6.1 billion to our portfolio companies.

We also make investments in qualifying small businesses through our two wholly-owned small business investment companies, or SBICs. Our SBIC subsidiaries, Hercules Technology II, L.P., or HT II, and Hercules Technology III, L.P., or HT III, hold approximately \$112.9 million and \$286.3 million in assets, respectively, and accounted for approximately 6.6% and 16.7% of our total assets, respectively, prior to consolidation at June 30, 2016. As of June 30, 2016, the maximum statutory limit on the dollar amount of combined outstanding Small Business Administration, or SBA, guaranteed debentures is \$350.0 million, subject to periodic adjustments by the SBA. At June 30, 2016, we have issued \$190.2 million in SBA-guaranteed debentures in our SBIC subsidiaries. See Regulation Small Business Administration Regulations for additional information regarding our SBIC subsidiaries. As of June 30, 2016, our investment professionals, including Manuel A. Henriquez, our co-founder, Chairman, President and Chief Executive Officer, are currently comprised of 34 professionals who have, on average, more than 15 years of experience in venture capital, structured finance, commercial lending or acquisition finance with the types of technology-related companies that we are targeting. We believe that we can leverage the experience and relationships of our management team to successfully identify attractive investment opportunities, underwrite prospective portfolio companies and structure customized financing solutions.

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The following chart shows the ownership structure and relationship of certain entities with us.

Our Market Opportunity

We believe that technology-related companies compete in one of the largest and most rapidly growing sectors of the U.S. economy and that continued growth is supported by ongoing innovation and performance improvements in technology products as well as the adoption of technology across virtually all industries in response to competitive pressures. We believe that an attractive market opportunity exists for a specialty finance company focused primarily on investments in structured debt with warrants in technology-related companies for the following reasons:

technology-related companies have generally been underserved by traditional lending sources;

unfulfilled demand exists for structured debt financing to technology-related companies due to the complexity of evaluating risk in these investments; and

structured debt with warrants products are less dilutive and complement equity financing from venture capital and private equity funds.

Technology-Related Companies are Underserved by Traditional Lenders. We believe many viable technology-related companies backed by financial sponsors have been unable to obtain sufficient growth financing from traditional lenders, including financial services companies such as commercial banks and finance companies because traditional lenders have continued to consolidate and have adopted a more risk-averse approach to lending. More importantly, we believe traditional lenders are typically unable to underwrite the risk associated with these companies effectively.

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The unique cash flow characteristics of many technology-related companies typically include significant research and development expenditures and high projected revenue growth thus often making such companies difficult to evaluate from a credit perspective. In addition, the balance sheets of these companies often include a disproportionately large amount of intellectual property assets, which can be difficult to value. Finally, the speed of innovation in technology and rapid shifts in consumer demand and market share add to the difficulty in evaluating technology-related companies.

Due to the difficulties described above, we believe traditional lenders generally refrain from entering the structured debt financing marketplace, instead preferring the risk-reward profile of asset based lending. Traditional lenders generally do not have flexible product offerings that meet the needs of technology-related companies. The financing products offered by traditional lenders typically impose on borrowers many restrictive covenants and conditions, including limiting cash outflows and requiring a significant depository relationship to facilitate rapid liquidation.

Unfulfilled Demand for Structured Debt Financing to Technology-Related Companies. Private debt capital in the form of structured debt financing from specialty finance companies continues to be an important source of funding for technology-related companies. We believe that the level of demand for structured debt financing is a function of the level of annual venture equity investment activity.

We believe that demand for structured debt financing is currently underserved. The venture capital market for the technology-related companies in which we invest has been active. Therefore, to the extent we have capital available, we believe this is an opportune time to be active in the structured lending market for technology-related companies.

Structured Debt with Warrants Products Complement Equity Financing From Venture Capital and Private Equity Funds. We believe that technology-related companies and their financial sponsors will continue to view structured debt securities as an attractive source of capital because it augments the capital provided by venture capital and private equity funds. We believe that our structured debt with warrants product provides access to growth capital that otherwise may only be available through incremental investments by existing equity investors. As such, we provide portfolio companies and their financial sponsors with an opportunity to diversify their capital sources. Generally, we believe many technology-related companies at all stages of development target a portion of their capital to be debt in an attempt to achieve a higher valuation through internal growth. In addition, because financial sponsor-backed companies have reached a more mature stage prior to reaching a liquidity event, we believe our investments could provide the debt capital needed to grow or recapitalize during the extended period sometimes required prior to liquidity events.

Our Business Strategy

Our strategy to achieve our investment objective includes the following key elements:

Leverage the Experience and Industry Relationships of Our Management Team and Investment Professionals. We have assembled a team of experienced investment professionals with extensive experience as venture capitalists, commercial lenders, and originators of structured debt and equity investments in technology-related companies. Our investment professionals have, on average, more than 15 years of experience as equity investors in, and/or lenders to, technology-related companies. In addition, our team members have originated structured debt, debt with warrants and equity investments in over 355 technology-related companies, representing almost \$6.1 billion in commitments from inception to June 30, 2016, and have developed a network of industry contacts with investors and other participants within the venture capital and private equity communities. In addition, members of our management team also have operational, research and development and finance experience with technology-related companies. We have established contacts with leading venture capital and private equity fund sponsors, public and private companies, research institutions and other industry participants, which we believe will enable us to identify and attract well-positioned prospective portfolio companies.

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We focus our investing activities generally in industries in which our investment professionals have investment experience. We believe that our focus on financing technology-related companies will enable us to leverage our expertise in structuring prospective investments, to assess the value of both tangible and intangible assets, to evaluate the business prospects and operating characteristics of technology-related companies and to identify and originate potentially attractive investments with these types of companies.

Mitigate Risk of Principal Loss and Build a Portfolio of Equity-Related Securities. We expect that our investments have the potential to produce attractive risk-adjusted returns through current income, in the form of interest and fee income, as well as capital appreciation from warrant and equity-related securities. We believe that we can mitigate the risk of loss on our debt investments through the combination of loan principal amortization, cash interest payments, relatively short maturities (typically between 24-48 months), security interests in the assets of our portfolio companies, and on select investment covenants requiring prospective portfolio companies to have certain amounts of available cash at the time of our investment and the continued support from a venture capital or private equity firm at the time we make our investment.

Historically our structured debt investments to technology-related companies typically include warrants or other equity interests, giving us the potential to realize equity-like returns on a portion of our investment. In addition, in some cases, we receive the right to make additional equity investments in our portfolio companies, including the right to convert some portion of our debt into equity, in connection with future equity financing rounds. We believe these equity interests will create the potential for meaningful long-term capital gains in connection with the future liquidity events of these technology-related companies.

Provide Customized Financing Complementary to Financial Sponsors' Capital. We offer a broad range of investment structures and possess expertise and experience to effectively structure and price investments in technology-related companies. Unlike many of our competitors that only invest in companies that fit a specific set of investment parameters, we have the flexibility to structure our investments to suit the particular needs of our portfolio companies. We offer customized financing solutions ranging from senior debt to equity capital, with a focus on structured debt with warrants.

We use our relationships in the financial sponsor community to originate investment opportunities. Because venture capital and private equity funds typically invest solely in the equity securities of their portfolio companies, we believe that our debt investments will be viewed as an attractive and complimentary source of capital, both by the portfolio company and by the portfolio company's financial sponsor. In addition, we believe that many venture capital and private equity fund sponsors encourage their portfolio companies to use debt financing for a portion of their capital needs as a means of potentially enhancing equity returns, minimizing equity dilution and increasing valuations prior to a subsequent equity financing round or a liquidity event.

Invest at Various Stages of Development. We provide growth capital to technology-related companies at all stages of development, including select publicly listed companies and select special opportunity lower middle market companies that require additional capital to fund acquisitions, recapitalizations and refinancings and established-stage companies. We believe that this provides us with a broader range of potential investment opportunities than those available to many of our competitors, who generally focus their investments on a particular stage in a company's development. Because of the flexible structure of our investments and the extensive experience of our investment professionals, we believe we are well positioned to take advantage of these investment opportunities at all stages of prospective portfolio companies' development.

Benefit from Our Efficient Organizational Structure. We believe that the perpetual nature of our corporate structure enables us to be a long-term partner for our portfolio companies in contrast to traditional investment funds, which typically have a limited life. In addition, because of our access to the equity markets, we believe that we may benefit from a lower cost of capital than that available to private investment funds. We are not

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subject to requirements to return invested capital to investors nor do we have a finite investment horizon. Capital providers that are subject to such limitations are often required to seek a liquidity event more quickly than they otherwise might, which can result in a lower overall return on an investment.

Deal Sourcing Through Our Proprietary Database. We have developed a proprietary and comprehensive structured query language-based (SQL) database system to track various aspects of our investment process including sourcing, originations, transaction monitoring and post-investment performance. As of June 30, 2016, our proprietary SQL-based database system included approximately 45,000 technology-related companies and approximately 9,200 venture capital firms, private equity sponsors/investors, as well as various other industry contacts. This proprietary SQL system allows us to maintain, cultivate and grow our industry relationships while providing us with comprehensive details on companies in the technology-related industries and their financial sponsors.

Dividend Reinvestment Plan

We maintain an opt-out dividend reinvestment plan that provides for reinvestment of our distribution on behalf of our stockholders, unless a stockholder elects to receive cash. See Dividend Reinvestment Plan. Those stockholders whose shares are held by a broker or other financial intermediary may receive distributions in cash by notifying their broker or other financial intermediary of their election.

Taxation

Effective January 1, 2006, we elected to be treated for tax purposes as a RIC under the Code. As a RIC, we generally will not pay corporate-level federal income taxes on any ordinary income or capital gains that we distribute to our stockholders as dividends, which allows us to reduce or eliminate our corporate level tax. See Certain United States Federal Income Tax Considerations. To maintain our RIC status, we must meet specified source-of-income and asset diversification requirements and distribute annually an amount equal to at least 90% of the sum of our net ordinary income and realized net short-term capital gains in excess of realized net long-term capital losses, if any, out of assets legally available for distribution. There is no assurance that we will meet these tests and be able to maintain our RIC status. If we do not qualify as a RIC, we would be taxed as a C corporation.

Use of Proceeds

We intend to use the net proceeds from selling our securities for general corporate purposes, which includes investing in debt and equity securities, repayment of indebtedness and other general corporate purposes. The supplement to this prospectus relating to an offering will more fully identify the use of proceeds from such offering.

Leverage

We borrow funds to make additional investments, and we have granted, and may in the future grant, a security interest in our assets to a lender in connection with any such borrowings, including any borrowings by any of our subsidiaries. We use this practice, which is known as leverage, to attempt to increase returns to our common stockholders. However, leverage involves significant risks. See Risk Factors. With certain limited exceptions, we are only allowed to borrow amounts such that our asset coverage, as defined in the 1940 Act, equals at least 200% after such borrowing. We received an exemptive order from the Securities and Exchange Commission, or SEC, that allows us to exclude all SBA leverage from our asset coverage ratio. The amount of leverage that we employ will depend on our assessment of market and other factors at the time of any proposed borrowing. See Management's Discussion and Analysis of Financial Condition and Results of Operations Financial Condition, Liquidity, and Capital Resources for additional information related to our outstanding debt.

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Distributions

As a RIC, we are required to distribute annually to our stockholders at least 90% of the sum of our net ordinary income and realized net short-term capital gains in excess of realized net long-term capital losses, if any. We are not subject to corporate level income taxation on income we timely distribute to our stockholders as dividend distributions. See **Certain United States Federal Income Tax Considerations**. We pay regular quarterly distributions based upon an estimate of annual taxable income available for distribution to stockholders and the amount of taxable income carried over from the prior year for distribution in the current year.

Principal Risk Factors

Investing in our common stock may be speculative and involves certain risks relating to our structure and our investment objective that you should consider before deciding whether to invest. In addition, we expect that our portfolio will continue to consist primarily of securities issued by privately-held technology-related companies, which generally require additional capital to become profitable. These investments may involve a high degree of business and financial risk, and they are generally illiquid. Our portfolio companies typically will require additional outside capital beyond our investment in order to succeed or to fully repay the amounts owed to us. A large number of entities compete for the same kind of investment opportunities as we seek.

We borrow funds to make our investments in portfolio companies. As a result, we are exposed to the risks of leverage, which may be considered a speculative investment technique. Borrowings magnify the potential for gain and loss on amounts invested and, therefore increase the risks associated with investing in our common stock. Also, we are subject to certain risks associated with valuing our portfolio, changing interest rates, accessing additional capital, fluctuating quarterly results, and operating in a regulated environment. See **Risk Factors** for a discussion of factors you should carefully consider before deciding whether to invest in our securities.

Certain Anti-Takeover Provisions

Our charter and bylaws, as well as certain statutes and regulations, contain provisions that may have the effect of discouraging a third party from making an acquisition proposal for our company. This could delay or prevent a transaction that could give our stockholders the opportunity to realize a premium over the price for their securities.

General Information

Our principal executive offices are located at 400 Hamilton Avenue, Suite 310, Palo Alto, California 94301, and our telephone number is (650) 289-3060. We also have offices in Boston, MA, New York, NY, Washington, DC, Santa Monica, CA, Hartford, CT and San Diego, CA. We maintain a website on the Internet at www.htgc.com. We make available, free of charge, on our website our proxy statement, annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Information contained in our website is not incorporated by reference into this prospectus, and you should not consider that information to be part of this prospectus.

We file annual, quarterly and current periodic reports, proxy statements and other information with the SEC under the Securities Exchange Act of 1934, which we refer to as the Exchange Act. This information is available at the SEC's public reference room at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information about the operation of the SEC's public reference room by calling the SEC at (202) 551-8090. In addition, the SEC maintains an Internet website, at www.sec.gov, that contains reports, proxy and information statements, and other information regarding issuers, including us, who file documents electronically with the SEC.

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The following table is intended to assist you in understanding the various costs and expenses that an investor in our common stock will bear directly or indirectly. However, we caution you that some of the percentages indicated in the table below are estimates and may vary. The footnotes to the fee table state which items are estimates. Except where the context suggests otherwise, whenever this prospectus contains a reference to fees or expenses paid by you or us or that we will pay fees or expenses, stockholders will indirectly bear such fees or expenses as investors in Hercules Capital, Inc.

Stockholder Transaction Expenses (as a percentage of the public offering price):	
Sales load (as a percentage of offering price) ⁽¹⁾	%
Offering expenses	%(2)
Dividend reinvestment plan fees	%(3)
Total stockholder transaction expenses (as a percentage of the public offering price)	%(4)
Annual Expenses (as a percentage of net assets attributable to common stock):⁽⁵⁾	
Operating expenses	6.15% ⁽⁶⁾⁽⁷⁾
Interest and fees paid in connection with borrowed funds	4.67% ⁽⁸⁾
Total annual expenses	10.82%⁽⁹⁾