

FALCONSTOR SOFTWARE INC

Form S-3

February 17, 2016

As filed with the Securities and Exchange Commission on February 17, 2016

Registration Statement No. 333- []

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

FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933

FALCONSTOR SOFTWARE, INC.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

77-0216135
(I.R.S. Employer
Identification Number)

2 Huntington Quadrangle
Melville, New York 11747
(631) 777-5188

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Gary Quinn
President and Chief Executive Officer
FalconStor Software, Inc.
2 Huntington Quadrangle
Melville, New York 11747
(631) 777-5188

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

Copies of all communications to:

Steve Wolosky, Esq.
Olshan Frome Wolosky LLP
Park Avenue Tower
65 East 55th Street
New York, New York 10022
Telephone: (212) 451-2300

Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this registration statement.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. "

Table of Contents

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act of 1933, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act of 1933, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

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

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input checked="" type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>

(Do not check if a smaller reporting company)

Table of Contents

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Amount to be registered(1)(2)(3)	Proposed maximum offering price per unit(1)(2)	Proposed maximum aggregate offering price(1)(3)	Amount of registration fee(3)
Common Stock, par value \$0.001 per share	—	—	—	—
Preferred Stock, par value \$0.001 per share	—	—	—	—
Warrants	—	—	—	—
Rights	—	—	—	—
Senior or Subordinated Debt Securities(4)	—	—	—	—
Total	—	—	\$30,000,000	\$3,021

(1) There are being registered, pursuant to this registration statement, such indeterminate number of shares of common stock, par value \$0.001 (the “common stock”) and preferred stock, par value \$0.001 (the “preferred stock”), such indeterminate principal amount of debt securities and such indeterminate amount of warrants and rights, as may be offered at various times and at indeterminate prices, pursuant to the prospectus contained in the registration statement, with an aggregate initial offering price not to exceed \$30,000,000 or the equivalent thereof in foreign currencies. There are also being registered hereunder an indeterminate amount or number of shares of the securities as may be issuable upon conversion or exchange of debt securities, preferred stock, warrants or rights or pursuant to anti-dilution provisions thereof. If any debt securities are issued at an original issue discount, the offering price of such debt securities shall be in such greater principal amount as shall result in an aggregate initial offering price not to exceed \$30,000,000, less the aggregate dollar amount of all securities previously issued pursuant to this registration statement. Separate consideration may or may not be received for securities that are issuable upon conversion of, or in exchange for, or upon exercise of, convertible or exchangeable securities.

(2) Pursuant to Rule 416 under the Securities Act of 1933, as amended (the “Securities Act”), the shares of common stock and preferred stock being registered hereunder include such indeterminate number of additional shares of common stock and preferred stock as may be offered with respect to the shares being registered hereunder as a result of stock splits, stock dividends or similar transactions.

(3) Pursuant to Rule 457(o) and Form S-3 General Instruction II.D., which permit the registration fee to be calculated on the basis of the maximum offering price of all securities listed, the table does not specify information as to the amount or proposed maximum aggregate offering price per unit of the securities to be registered.

THE REGISTRANT HEREBY AMENDS THIS REGISTRATION STATEMENT ON SUCH DATE OR DATES AS MAY BE NECESSARY TO DELAY ITS EFFECTIVE DATE UNTIL THE REGISTRANT SHALL FILE A FURTHER AMENDMENT WHICH SPECIFICALLY STATES THAT THIS REGISTRATION STATEMENT SHALL THEREAFTER BECOME EFFECTIVE IN ACCORDANCE WITH SECTION 8(A) OF THE SECURITIES ACT OF 1933, OR UNTIL THE REGISTRATION STATEMENT SHALL BECOME EFFECTIVE ON SUCH DATE AS THE SECURITIES AND EXCHANGE COMMISSION, ACTING PURSUANT TO SAID SECTION 8(A), MAY DETERMINE.

Table of Contents

The information in this prospectus is not complete and may be changed. No securities may be sold until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities, and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

SUBJECT TO COMPLETION, Dated: February 17, 2016
PRELIMINARY PROSPECTUS

\$30,000,000

Common Stock
Preferred Stock
Warrants
Rights
Debt Securities

FalconStor Software, Inc.
2 Huntington Quadrangle
Melville, New York 11747
(631) 777-5188

We may offer from time to time:

- Shares of our common stock, par value \$0.001 per share;
- Shares of our preferred stock, par value \$0.001 per share;
- Warrants to purchase any of the other securities that may be sold under this prospectus;
- Rights to purchase any of the other securities that may be sold under this prospectus;
- Our debt securities, in one or more series, which may be senior debt securities or subordinated debt securities, in each case consisting of notes or other unsecured evidences of indebtedness; or
 - Any combination of these securities.

By means of this prospectus, we are offering \$30,000,000 of securities pursuant to General Instruction I.B.6 of Form S-3. As of February 16, 2016, the aggregate market value of our outstanding common stock held by non-affiliates, or the public float, was \$57,975,767, which was calculated based on 34,509,385 shares of outstanding common stock held by non-affiliates and on a price per share of \$1.68 the closing price of our common stock on February 16, 2016. Pursuant to General Instruction I.B.6 of Form S-3, in no event will we sell our securities in a public primary offering with a value exceeding more than one-third of our public float in any 12-month period so long as our public float remains below \$75,000,000. We have not offered any securities pursuant to General Instruction I.B.6 of Form S-3 during the 12-calendar months prior to and including the date of this prospectus.

This Prospectus also covers the resale of 253,535 shares of our common stock held by Cumulus Logic LLC. In addition, Cumulus Logic LLC and other selling stockholders may also offer additional shares of our common stock from time to time in connection with this offering. The securities we and/or a selling stockholder offer will have an

aggregate public offering price of up to \$30.0 million. We or the selling stockholders, if applicable, will provide specific terms of any offering, including the price of the securities to the public, in supplements to this prospectus. These securities may be offered separately or together in any combination and as separate series. You should read this prospectus and any applicable prospectus supplement and free writing prospectus carefully before you invest in our securities.

Table of Contents

We and/or a selling stockholder may sell these securities on a continuous or delayed basis directly, through agents, dealers or underwriters as designated from time to time, or through a combination of these methods. For additional information on the methods of sale, you should refer to the section entitled “Plan of Distribution”. We and/or a selling stockholder, as applicable, reserve the sole right to accept, and together with any agents, dealers and underwriters, reserve the right to reject, in whole or in part, any proposed purchase of securities. If any agents, dealers or underwriters are involved in the sale of any securities, the applicable prospectus supplement will set forth any applicable commissions or discounts. Our net proceeds and the net proceeds of any selling stockholder, if applicable, from the sale of securities also will be set forth in the applicable prospectus supplement. The prospectus supplement will also contain more specific information about the offering.

Our common stock is listed on The NASDAQ Global Market under the symbol “FALC.” On February 16, 2016, the last reported sale price of our common stock on The NASDAQ Global Market was \$1.68 per share.

INVESTING IN OUR SECURITIES INVOLVES RISKS.

SEE “RISK FACTORS” BEGINNING ON PAGE 2 OF THIS PROSPECTUS.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is February 17, 2016.

Table of Contents

TABLE OF CONTENTS

<u>ABOUT THIS PROSPECTUS</u>	1
<u>SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS</u>	1
<u>FALCONSTOR SOFTWARE, INC.</u>	2
<u>RISK FACTORS</u>	2
<u>RATIO OF EARNINGS TO FIXED CHARGES</u>	2
<u>USE OF PROCEEDS</u>	3
<u>GENERAL DESCRIPTION OF SECURITIES THAT WE MAY SELL</u>	3
<u>DESCRIPTION OF CAPITAL STOCK</u>	3
<u>DESCRIPTION OF WARRANTS</u>	6
<u>DESCRIPTION OF RIGHTS</u>	8
<u>DESCRIPTION OF DEBT SECURITIES</u>	9
<u>SELLING STOCKHOLDERS</u>	18
<u>PLAN OF DISTRIBUTION</u>	19
<u>LEGAL MATTERS</u>	21
<u>EXPERTS</u>	21
<u>WHERE YOU CAN FIND MORE INFORMATION</u>	21
<u>INCORPORATION OF DOCUMENTS BY REFERENCE</u>	21

Table of Contents

In this prospectus, except as otherwise indicated, the words “FalconStor” or the “Registrant” refer to FalconStor Software, Inc. and the words “the Company,” “we,” “us,” “our” and “ours” refer to FalconStor Software, Inc. together with its consolidated subsidiaries. In this prospectus, references to “common stock,” “preferred stock,” “warrants,” “rights” and “debt securities” are to the common stock and preferred stock of FalconStor, and warrants, rights or debt securities issued by FalconStor. References in this prospectus to “fiscal year” or “fiscal” refer to our financial reporting years ending on December 31 in the applicable calendar year.

You should rely only on information contained or incorporated by reference in this prospectus. Neither we nor the selling stockholders have authorized any person to provide you with information that differs from what is contained or incorporated by reference in this prospectus. If any person does provide you with information that differs from what is contained or incorporated by reference in this prospectus, you should not rely on it. This prospectus is not an offer to sell or the solicitation of an offer to buy any securities other than the securities to which it relates, or an offer or solicitation in any jurisdiction where offers or sales are not permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, even though this prospectus may be delivered or shares may be sold under this prospectus on a later date. Our business, financial condition, results of operation and prospects may have changed since those dates.

About This Prospectus

This prospectus is part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission, or the SEC, using a “shelf” registration process. Under the shelf registration process, we may from time to time, offer and sell to the public any or all of the securities in the registration statement in one or more offerings and the selling stockholders may from time to time offer and sell shares of our common stock in one or more offerings.

This prospectus provides you with a general description of the securities we and/or the selling stockholders may offer. Each time securities are offered, we or the selling stockholders, if applicable, will provide a prospectus supplement that will describe the specific amounts, prices, and terms of the securities we or the selling stockholders offer. The prospectus supplement will contain more specific information about the offering. The prospectus supplement also may add, update, or change information contained in this prospectus. This prospectus, together with applicable prospectus supplements, includes all material information relating to this offering. If there is any inconsistency between the information in this prospectus and the information in the accompanying prospectus supplement, you should rely on the information in the prospectus supplement. Please carefully read both this prospectus and any prospectus supplement together with the additional information described below under the section entitled “Incorporation of Documents by Reference.”

We and/or the selling stockholders may sell the securities to or through underwriters, dealers, or agents or directly to purchasers. We and our agents and the selling stockholders reserve the sole right to accept and to reject in whole or in part any proposed purchase of securities. A prospectus supplement, which we or the selling stockholders, if applicable, will provide each time securities are offered, will provide the names of any underwriters, dealers or agents involved in the sale of the securities, and any applicable fee, commission, or discount arrangements with them.

Special Note Regarding Forward-Looking Statements

Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, provide a “safe harbor” for forward-looking statements to encourage companies to provide prospective information about their companies. Some of the statements in this document and any documents incorporated by reference constitute “forward-looking statements” within the meaning of Section 21E of the Exchange Act. These statements relate to future events or our future financial performance and involve known and unknown risks, uncertainties and other factors that may cause our businesses or our industries’ actual results, levels of activity,

performance or achievements to be materially different from those expressed or implied by any forward-looking statements. Such statements include statements about delays in product development; market acceptance of FalconStor's products and services; technological change in the data protection industry; competition in the data protection market; results and costs associated with governmental investigations; intellectual property issues; and other aspects of our business identified in this prospectus, as well as other reports that we file from time to time with the SEC. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "could," "would," "should," "expect," "plan," "anticipate," "intend," "tends," "believe," "estimate," "predict," "potential," "project" or "continue" of those terms or other comparable terminology. These statements are only predictions. Actual events or results may differ materially because of market conditions in our industries or other factors that are in some cases beyond our control. All of the forward-looking statements are subject to risks and uncertainties. The forward-looking statements are made as of the date of this prospectus or the date of the documents incorporated by reference in this prospectus, as the case may be, and except as required by law, we do not undertake, and specifically decline, any obligation to update any of these statements or to publicly announce the results of any revisions to these statements to reflect future events or developments. Various factors, including but not limited to the risk factors described in the "Risk Factors" section of this prospectus and elsewhere herein, could cause actual results to differ from those implied by the forward-looking statements. Given these risks and uncertainties, you are cautioned not to place undue reliance on these forward-looking statements.

Table of Contents

FalconStor Software, Inc.

Overview of the Company

FalconStor is a leading Software-Defined Storage (“SDS”) company offering a converged data services software platform that is hardware agnostic. Founded in 2000, FalconStor celebrated its 15th year in business with the launch of its new flagship platform, FreeStor®, which was made generally available in May, 2015. As a global company, our vision is to deliver enterprise class, software-defined, intelligent data services combined with predictive analytics across any primary or secondary storage hardware; in the cloud or on premise. Our mission is to help IT organizations realize more economic value out of existing environments and any future storage investments while reducing complexity, maximizing flexibility and improving operational efficiency. Our award-winning solutions are available and supported worldwide by OEMs as well as leading service providers, system integrators, resellers and FalconStor.

FalconStor was incorporated in Delaware as Network Peripherals, Inc., in 1994. Pursuant to a merger with FalconStor Inc., in 2001, the former business of Network Peripherals, Inc., was discontinued, and the newly re-named FalconStor Software, Inc., continued the storage software business started in 2000 by FalconStor, Inc.

FalconStor’s headquarters are located at 2 Huntington Quadrangle, Suite 2S01, Melville, NY 11747. Our telephone number is (631) 777-5188. The Company also maintains offices throughout Europe and Asia Pacific.

Risk Factors

Investing in our securities involves a high degree of risk. The prospectus supplement applicable to each offering of our securities will contain a discussion of the risks applicable to an investment in our securities. Prior to making a decision about investing in our securities, you should carefully consider the specific factors discussed under the heading “Risk Factors” in the applicable prospectus supplement, together with all of the other information contained or incorporated by reference in the prospectus supplement or appearing or incorporated by reference in this prospectus. You should also consider the risks, uncertainties and assumptions discussed under Item 1A, “Risk Factors,” in our Annual Report on Form 10-K for the fiscal year ended December 31, 2015 which is incorporated herein by reference, and may be amended, supplemented or superseded from time to time by other reports we file with the SEC in the future and any prospectus supplement related to a particular offering.

Ratio of Earnings to Fixed Charges

If we offer debt securities and/or preference equity securities under this prospectus, then we will, at that time, provide a ratio of earnings to fixed charges and/or ratio of combined fixed charges and preference dividends to earnings, respectively, in the applicable prospectus supplement for such offering.

Table of Contents

Use of Proceeds

Unless otherwise indicated in any applicable prospectus supplement, the net proceeds from any sale of securities by us will be used for general corporate purposes, which may include potential acquisitions and other strategic business opportunities. No material acquisitions are probable at this time. As described in further detail under “Description of Capital Stock -- Preferred Stock -- Series A Convertible Preferred Stock”, if we consummate an equity or debt financing that results in more than \$5.0 million of net proceeds to us and/or our subsidiaries, the holders of Series A convertible preferred stock will have the right, but not the obligation to require us to use the net proceeds in excess of \$5.0 million to repurchase all or a portion of the Series A convertible preferred stock. If we decide to use the net proceeds from a particular offering of securities for a specific purpose other than as set forth above, we will describe that in the related prospectus supplement. In the case of a sale of common stock by the selling stockholders, we will not receive any of the proceeds from such sale.

General Description of Securities That We May Sell

We may offer and sell, at any time and from time to time:

- Shares of our common stock, par value \$0.001 per share;
- Shares of our preferred stock, par value \$0.001 per share;
- Warrants to purchase any of the other securities that may be sold under this prospectus;
- Rights to purchase any of the other securities that may be sold under this prospectus;
- Our debt securities, in one or more series, which may be senior debt securities or subordinated debt securities, in each case consisting of notes or other unsecured evidences of indebtedness; or
 - Any combination of these securities.

The selling stockholders may also offer shares of common stock from time to time in connection with this offering. The terms of any securities offered will be determined at the time of sale. We may issue debt securities that are exchangeable for and/or convertible into common stock or any of the other securities that may be sold under this prospectus. When particular securities are offered, a supplement to this prospectus will be filed with the SEC, which will describe the terms of the offering and sale of the offered securities.

Description of Capital Stock

For purposes of this description, references to “we,” “our” and “us” refer only to FalconStor Software, Inc. and not to its subsidiaries.

The following is a summary of the rights and preferences of our capital stock and certain other securities convertible into our capital stock. While we believe that the following description covers the material terms of our capital stock and other securities, the description may not contain all of the information that is important to you and is subject to and qualified in its entirety by our Restated Certificate of Incorporation, Bylaws, and the other agreements and instruments described below, which are included as exhibits to the registration statement of which this prospectus forms a part, and by the provisions of applicable Delaware law. We encourage you to read carefully this entire prospectus, our Restated Certificate of Incorporation, as amended, Bylaws and the other agreements and instruments described below for a more complete understanding of our capital stock.

Common Stock

FalconStor is authorized to issue 100,000,000 shares of common stock, par value \$0.001 per share. As of February 16, 2016, there were approximately 41,769,947 shares of common stock outstanding.

3

Table of Contents

Each share of common stock entitles its record holder to one vote on all matters to be voted on by the common stockholders of FalconStor. Except as otherwise provided by law, actions by the common stockholders of FalconStor may be approved by a majority vote of the stockholders present at a duly called meeting of the stockholders at which a quorum is present (with the Series A convertible preferred stock generally voting on an as-converted basis with the common stock); however, an amendment to the Bylaws by the stockholders requires the affirmative vote of the holders of at least sixty-six and two-thirds percent (66-2/3%) of the voting power of all of the then outstanding shares of the capital stock of the Company entitled to vote generally in the election of directors, voting together as a single class, as well as approval by the holders of Series A convertible preferred stock, as described more fully below. The Board of Directors of the Company may amend the Bylaws with the majority vote of the total number of authorized directors. The Board of Directors of FalconStor is classified and currently consists of seven directors divided into three classes, each class with a term of office expiring the third succeeding annual meeting of stockholders after election of such class. At all meetings of stockholders for the election of directors, a plurality of the votes cast is sufficient to elect. No provision of FalconStor's Restated Certificate of Incorporation or Bylaws provides for cumulative voting in the case of the election of directors or on any other matter.

Each holder of common stock of FalconStor is entitled to share pro rata in any dividends paid on the common stock out of assets legally available for that purpose, when, and if declared by the Board of Directors. Upon the liquidation, dissolution or winding up of the Company, the assets of the Company shall be distributed pro rata among the holders of common stock. However, the aforementioned dividend and liquidation rights are limited and qualified by the Series A convertible preferred stock, which has a preference to any such distribution of the assets or funds. Other than the rights described above, the holders of common stock have no redemption, preemptive, subscription or conversion rights, nor any rights to payment from any sinking or similar fund, and are not subject to any calls or assessments. There are no restraints in the Restated Certificate of Incorporation or Bylaws of FalconStor on the right of holders of shares of common stock to sell or otherwise alienate their shares of stock in FalconStor, and there are no provisions discriminating against any existing or prospective holder of shares of common stock as a result of such security holder owning a substantial amount of securities.

In addition to FalconStor's outstanding common stock, FalconStor has outstanding options to purchase its common stock held by its employees and directors and additional shares available for issuance under several equity compensation plans, as further described in FalconStor's periodic reports filed with the SEC.

Preferred Stock

FalconStor is authorized to issue 2,000,000 shares of preferred stock, par value \$0.001 per share. Our board of directors has the authority, subject to any limitations prescribed by Delaware law, to issue shares of preferred stock in one or more series and to fix and determine the designation, privileges, preferences and rights and the qualifications, limitations and restrictions of those shares, including dividend rights, conversion rights, voting rights, redemption rights, terms of sinking funds, liquidation preferences and the number of shares constituting any series or the designation of the series, without any further vote or action by the stockholders. Any shares of our preferred stock so issued may have priority over our common stock with respect to dividend, liquidation and other rights. Our board of directors may authorize the issuance of preferred stock with voting rights or conversion features that could adversely affect the voting power or other rights of the holders of our common stock. Although the issuance of preferred stock could provide us with flexibility in connection with possible acquisitions and other corporate purposes, under some circumstances, it could have the effect of delaying, deferring or preventing a change of control. We will describe the particular terms of any preferred stock in more detail in the applicable prospectus supplement.

On September 16, 2013, FalconStor issued 900,000 shares designated as Series A convertible preferred stock. This leaves 1,100,000 shares of authorized but unissued preferred stock. As of February 16, 2016, FalconStor currently has

900,000 shares of Series A convertible preferred stock outstanding.

Series A Convertible Preferred Stock

On September 16, 2013, FalconStor issued to Hale Capital Partners, LP (“Hale Capital”) 900,000 shares of Series A convertible preferred stock, par value \$0.001 per share, at a price of \$10 per share, subject to the terms of the Certificate of Designations, Preferences and Rights of Series A Convertible Preferred Stock (the “Certificate of Designations”). On September 25, 2013, Hale Capital assigned and transferred to its affiliate, HCP-FVA, the 900,000 shares of Series A convertible preferred stock and all of its rights and obligations under the Preferred Stock Purchase Agreement dated as of September 16, 2013 by and among the Company and Hale Capital.

Table of Contents

Pursuant to the Certificate of Designations, each share of Series A convertible preferred stock can be converted into shares of FalconStor's common stock, at an initial conversion price equal to \$1.02488 per share, subject to appropriate adjustments for any stock dividend, stock split, stock combination, reclassification or similar transaction, (i) at any time at the option of the holder or (ii) by FalconStor if, following the first anniversary of the issuance of the Series A convertible preferred stock (subject to extension under certain circumstances), the volume weighted average trading price per share of FalconStor's common stock for sixty (60) consecutive trading days exceeds 250% of the conversion price and continues to exceed 225% of the conversion price through the conversion date, subject at all times to the satisfaction of, and the limitations imposed by, the equity conditions set forth in the Certificate of Designations (including, without limitation, the volume limitations set forth therein).

Pursuant to the Certificate of Designations, the holders of the Series A convertible preferred stock will also receive quarterly dividends at the prime rate (provided in the Wall Street Journal Eastern Edition) plus 5% (up to a maximum dividend rate of 10%), payable in cash, provided, that if FalconStor does not have at least \$1.0 million in positive cash flow for any calendar quarter after giving effect to the payment of such dividends, FalconStor shall pay such dividends in a combination of cash (to the extent of its positive cash flow in excess of \$1.0 million or, if the Company so elects, such greater amount up to the amount of its positive cash flow) and the remainder can be accrued or paid in common stock to the extent certain equity conditions are satisfied. A holder's right to convert its shares of Series A convertible preferred stock and receive dividends in the form of common stock is subject to certain limitations including, among other things, that the shares of common stock issuable upon conversion or as dividends will not, prior to receipt of stockholder approval, result in any holder beneficially owning greater than 19.99% of FalconStor's currently outstanding shares of common stock. At the 2014 annual meeting of stockholders held on May 28, 2014, stockholders approved the potential issuance of more than 19.99% of the Company's issued and outstanding common stock upon conversion of the Series A convertible preferred stock or as payment of dividends or in connection with a change of control of the Company.

Upon certain triggering events, such as bankruptcy, insolvency or a material adverse effect or failure of FalconStor to issue shares of common stock upon conversion of the Series A convertible preferred stock in accordance with its obligations, the holders may require FalconStor to redeem all or some of the Series A convertible preferred stock at a price per share equal to the greater of (i) the sum of 100% of the stated value of a share of Series A convertible preferred stock plus accrued and unpaid dividends with respect thereto, and (ii) the product of the number of shares of common stock underlying a share of Series A convertible preferred stock and the closing price as of the occurrence of the triggering event. On or after August 5, 2017, each holder of Series A convertible preferred stock can also require FalconStor to redeem its Series A convertible preferred stock in cash at a per share price equal to 100% of the stated value of a share of Series A convertible preferred stock plus accrued and unpaid dividends with respect thereto. Upon consummation of a fundamental sale transaction, the Series A convertible preferred stock shall be redeemed at a per share redemption price equal to the greater of (y) 250% of the per share purchase price of the Series A convertible preferred stock and (z) the price payable in respect of such share of Series A convertible preferred stock if such share of Series A convertible preferred stock had been converted into such number of shares of common stock in accordance with the Certificate of Designations (but without giving effect to any limitations or restrictions contained therein) immediately prior to such fundamental sale transaction. In addition, if FalconStor consummates an equity or debt financing that results in more than \$5.0 million of net proceeds to FalconStor and/or its subsidiaries, the holders of Series A convertible preferred stock will have the right, but not the obligation, to require FalconStor to use the net proceeds in excess of \$5.0 million to repurchase all or a portion of the Series A convertible preferred stock at a per share price equal to the greater of (i) the sum of 100% of the stated value of such share of Series A convertible preferred stock plus accrued and unpaid dividends with respect thereto, and (ii) the number of shares of common stock into which such share of Series A convertible preferred stock is then convertible multiplied by the greater of (y) the closing price of the common stock on the date of announcement of such financing or (z) the closing price of the common stock on the date of consummation of such financing.

Each holder of Series A convertible preferred stock has a vote equal to the number of shares of common stock into which its Series A convertible preferred stock would be convertible as of the record date. In addition, the holders of a majority of the Series A convertible preferred stock must approve certain actions, including approving any amendments to FalconStor's Restated Certificate of Incorporation or Bylaws that adversely affects the voting powers, preferences or other rights of the Series A convertible preferred stock; payment of dividends or distributions; any liquidation, capitalization, reorganization or any other fundamental transaction of FalconStor; issuance of any equity security senior to or on parity with the Series A convertible preferred stock as to dividend rights, redemption rights, liquidation preference and other rights; issuances of equity below the conversion price; any liens or borrowings other than non-convertible indebtedness from standard commercial lenders which does not exceed 80% of FalconStor's accounts receivable; and the redemption or purchase of any of the capital stock of FalconStor.

Table of Contents

In connection with the issuance and sale of the Series A convertible preferred stock, FalconStor and Hale Capital also agreed that the holders of the Series A convertible preferred stock have the exclusive right, voting separately as a class, to elect two (2) directors to the Board of Directors, for so long as at least eighty-five percent (85%) of the Series A convertible preferred stock purchased under the Purchase Agreement remains outstanding, which shall be reduced to one (1) director at such time as less than eighty-five percent (85%) but greater than fifteen percent (15%) of the Series A convertible preferred stock purchased under the Purchase Agreement remains outstanding. In accordance with the Purchase Agreement, Martin M. Hale, Jr. and Michael P. Kelly were designated for election by the holders of the Series A convertible preferred stock to, and currently serve as members of, FalconStor's Board of Directors.

Anti-Takeover Provisions

FalconStor may issue up to an additional 1,100,000 shares of preferred stock on such terms and with such rights, preferences and designations, including, without limitation restricting dividends on its common stock, dilution of the voting power of its common stock and impairing the liquidation rights of the holders of its common stock, as the Board of Directors may determine without any vote of the stockholders. The issuance of such preferred stock, depending upon the rights, preferences and designations thereof may have the effect of delaying, deterring or preventing a change in control of FalconStor.

In addition, as more fully explained in Item 15 below, FalconStor is subject to Section 203 of the Delaware General Corporation Law ("DGCL"), which may restrict the ability of stockholders to authorize a merger, business combination or change of control. Further, the Company has a classified Board of Directors and has entered into change of control agreements through either employment agreements, its 2005 Key Executive Severance Protection Plan with certain executives, or certain incentives provided to certain employees, which may also have the effect of delaying, deterring or preventing a change in control.

Transfer Agent and Registrar; Market Listing

The transfer agent for FalconStor's common stock is Computershare Shareowners Services LLC. Our common stock is traded on the Nasdaq Global Market under the symbol "FALC."

Description of Warrants

The following description, together with the additional information we include in any applicable prospectus supplement, summarizes the material terms and provisions of the warrants that we may offer and sell under this prospectus and any related warrant agreements and warrant certificates. While the terms we have summarized below will apply generally to any warrants offered, we will describe the particular terms of any series of warrants in more detail in the applicable prospectus supplement, which may differ from the terms we describe below.

General

We may issue, and we may offer and sell, together with other securities or separately, warrants to purchase our preferred stock, debt, common stock or other securities. Warrants may be issued directly to the purchasers of the warrants or under warrant agreements to be entered into between us and a bank or trust company, as warrant agent, all as set forth in the applicable prospectus supplement. A warrant agent will act solely as our agent in connection with the warrants of the series being offered and will not assume any obligation or relationship of agency or trust for or with any holders or beneficial owners of warrants. The prospectus supplement will describe, among other things, the following terms, where applicable, of warrants that we may offer:

Table of Contents

- the title of the warrants;
- the designation, amount and terms of the securities for which the warrants are exercisable and the procedures and conditions relating to the exercise of such warrants;
- the designation and terms of the other securities, if any, with which the warrants are to be issued and the number of warrants issued with each such security;
- the price or prices at which the warrants will be issued and any terms for the adjustment of the price or prices;
- the aggregate number of warrants;
- any provisions for adjustment of the number or amount of securities receivable upon exercise of the warrants;
- the price or prices at which the securities purchasable upon exercise of the warrants may be purchased, including provisions for adjustment of the exercise price of the warrant;
- if applicable, the date on and after which the warrants and the securities purchasable upon exercise of the warrants will be separately transferable;
- if applicable, a discussion of the material U.S. federal income tax considerations applicable to the exercise of the warrants;
- any other terms of the warrants, including terms, procedures and limitations relating to the exchange and exercise of the warrants;
- the date on which the right to exercise the warrants shall commence, and the date on which the right shall expire; and
 - the maximum or minimum number of warrants which may be exercised at any time.

Before exercising their warrants, holders of warrants will not have any of the rights of holders of the securities purchasable upon such exercise, including the right to receive dividends, if any, or payments upon our liquidation, dissolution or winding up or to exercise voting rights, if any.

Exercise of Warrants

Each warrant will entitle the holder thereof to purchase for cash the amount of debt securities or number of shares of preferred stock or common stock at the exercise price as will in each case be set forth in, or be determinable as set forth in, the applicable prospectus supplement. Warrants may be exercised at any time up to the close of business on the expiration date set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants will become void.

Warrants may be exercised as set forth in the applicable prospectus supplement relating to the warrants offered thereby. Upon receipt of payment and the warrant certificate properly completed and duly executed at the corporate trust office of the warrant agent or any other office indicated in the applicable prospectus supplement, we will, as soon as practicable, forward the purchased securities. If less than all of the warrants represented by the warrant certificate are exercised, a new warrant certificate will be issued for the remaining warrants.

Table of Contents

Enforceability of Rights of Holders of Warrants

Each warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank or trust company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, that holder's warrants.

Description of Rights

General

We may issue rights to our stockholders to purchase shares of our common stock, preferred stock or the other securities described in this prospectus. We may offer rights separately or together with one or more additional rights, preferred stock, common stock, warrants, debt securities or any combination of those securities, as described in the applicable prospectus supplement. Each series of rights will be issued under a separate rights agreement to be entered into between us and a bank or trust company, as rights agent. The rights agent will act solely as our agent in connection with the certificates relating to the rights of the series of certificates and will not assume any obligation or relationship of agency or trust for or with any holders of rights certificates or beneficial owners of rights. The following description sets forth certain general terms and provisions of the rights to which any prospectus supplement may relate. The particular terms of the rights to which any prospectus supplement may relate and the extent, if any, to which the general provisions may apply to the rights so offered will be described in the applicable prospectus supplement. To the extent that any particular terms of the rights, rights agreement or rights certificates described in a prospectus supplement differ from any of the terms described below, then the terms described below will be deemed to have been superseded by that prospectus supplement. We encourage you to read the applicable rights agreement and rights certificate for additional information before you decide whether to purchase any of our rights.

We will provide in a prospectus supplement the following terms of the rights being issued:

- the date of determining the stockholders entitled to the rights distribution;
- the aggregate number of shares of common stock, preferred stock or other securities purchasable upon exercise of the rights;
- the exercise price;
- the aggregate number of rights issued;
- whether the rights are transferrable and the date, if any, on and after which the rights may be separately transferred;
- the date on which the right to exercise the rights will commence, and the date on which the right to exercise the rights will expire;
 - the method by which holders of rights will be entitled to exercise;
 - the conditions to the completion of the offering, if any;
 - the withdrawal, termination and cancellation rights, if any;
- whether there are any backstop or standby purchaser or purchasers and the terms of their commitment, if any;
 - whether stockholders are entitled to oversubscription rights, if any;
 - any applicable material U.S. federal income tax considerations; and
- any other terms of the rights, including terms, procedures and limitations relating to the distribution, exchange and exercise of the rights, as applicable.

Each right will entitle the holder of rights to purchase for cash the principal amount of shares of common stock, preferred stock or other securities at the exercise price provided in the applicable prospectus supplement. Rights may

be exercised at any time up to the close of business on the expiration date for the rights provided in the applicable prospectus supplement.

Table of Contents

Holders may exercise rights as described in the applicable prospectus supplement. Upon receipt of payment and the rights certificate properly completed and duly executed at the corporate trust office of the rights agent or any other office indicated in the prospectus supplement, we will, as soon as practicable, forward the shares of common stock, preferred stock or other securities, as applicable, purchasable upon exercise of the rights. If less than all of the rights issued in any rights offering are exercised, we may offer any unsubscribed securities directly to persons other than stockholders, to or through agents, underwriters or dealers or through a combination of such methods, including pursuant to standby arrangements, as described in the applicable prospectus supplement.

Rights Agent

The rights agent for any rights we offer will be set forth in the applicable prospectus supplement.

Description of Debt Securities

We may issue debt securities in one or more distinct series. This section summarizes the terms of the debt securities that are common to all series. Most of the financial terms and other specific terms of any series of debt securities that we offer will be described in a prospectus supplement to be attached to the front of this prospectus. Since the terms of specific debt securities may differ from the general information we have provided below, if any information contained in a prospectus supplement contradicts the information below, you should rely on information in the prospectus supplement.

As required by federal law for all bonds and notes of companies that are publicly offered, the debt securities are governed by a document called an “indenture”. An indenture is a contract between us and a financial institution acting as trustee of holders of the debt securities on behalf of the holders of the debt securities. The trustee has two main roles. First, the trustee can enforce the rights of holders of the debt securities against us if we default. There are some limitations on the extent to which the trustee acts on behalf of holders of the debt securities, described later under “—Events of Default.” Second, the trustee performs certain administrative duties for us.

The debt securities will be either senior debt securities or subordinated debt securities. We will issue the senior debt securities under a senior indenture between us and a trustee. We will issue the subordinated debt securities under a subordinated indenture between us and the same or another trustee. The senior indenture and the subordinated indenture are collectively referred to in this prospectus as the indenture, and each of the trustee under the senior indenture and the trustee under the subordinated indenture are referred to in this prospectus as the trustee. Unless otherwise specified in a prospectus supplement the debt securities will be direct unsecured obligations of FalconStor.

Because this section is a summary, it does not describe every aspect of the debt securities or the indenture. We urge you to read the indenture because it, and not this description, defines your rights as a holder of debt securities. For example, in this section, we use capitalized words to signify terms that are specifically defined in the indenture. Some of the definitions are repeated in this prospectus, but for the rest you will need to read the indenture. We have filed the form of the indenture as an exhibit to the registration statement that we have filed with the SEC. See “Where You Can Find More Information,” below, for information on how to obtain a copy of the indenture. In addition, most of the financial terms and other specific terms of any series of debt securities that we offer will be described in the applicable prospectus supplement.

General

Each series of debt securities, unless otherwise specified in the prospectus supplement, will be unsecured obligations of FalconStor. Any senior unsecured debt securities that we issue will rank equally with all other unsecured and

unsubordinated indebtedness of us. Any subordinated debt securities that we issue will be expressly subordinated in right of payment to the prior payment in full of our senior indebtedness. In addition, unless otherwise specified in the applicable prospectus supplement, the debt securities will be structurally subordinated to all existing and future liabilities, including trade payables, of our subsidiaries, and the claims of creditors of those subsidiaries, including trade creditors, will have priority as to the assets and cash flows of those subsidiaries.

Table of Contents

Any debt securities proposed to be sold under this prospectus and the attached prospectus supplement (“offered debt securities”) and any debt securities issuable upon conversion or exchange of other offered securities (“underlying debt securities”), may be issued under the indenture in one or more series.

You should read the prospectus supplement for the terms of the offered debt securities, including the following:

- the title of the debt securities and whether the debt securities will be senior debt securities or subordinated debt securities of FalconStor;
- the total principal amount of the debt securities and any limit on the total principal amount of debt securities of the series;
 - the price or prices at which FalconStor will offer the debt securities;
- if not the entire principal amount of the debt securities, the portion of the principal amount payable upon acceleration of the maturity of the debt securities or how this portion will be determined;
- the date or dates, or how the date or dates will be determined or extended, when the principal of the debt securities will be payable;
- the interest rate or rates, which may be fixed or variable, that the debt securities will bear, if any, or how the rate or rates will be determined, the date or dates from which any interest will accrue or how the date or dates will be determined, the interest payment dates, any record dates for these payments and the basis upon which interest will be calculated, if other than that of a 360-day year of twelve 30-day months;
 - any optional redemption provisions;
- any sinking fund or other provisions that would obligate us to repurchase or otherwise redeem the debt securities;
 - if other than U.S. dollars, the currency or currencies of the debt securities;
- whether the amount of payments of principal, premium or interest, if any, on the debt securities will be determined with reference to an index, formula or other method, which could be based on one or more currencies, commodities, equity indices or other indices, and how these amounts will be determined;
- the place or places, if any, other than or in addition to The City of New York, of payment, transfer, conversion and/or exchange of the debt securities;
- if the denominations in which the offered debt securities will be issued are other than denominations of \$1,000 or any integral multiple of \$1,000;
- the applicability of defeasance provisions of the indenture and any provisions in modification of, in addition to, or in lieu of, any of these provisions;
- any provisions granting special rights to the holders of the debt securities upon the occurrence of specified events;
 - any changes or additions to the events of default or covenants contained in the indenture;

Table of Contents

- whether the debt securities will be convertible into or exchangeable for any other securities and the applicable terms and conditions;
- subordination provisions, if any, that will apply, to the extent different from those set forth below;
- the form of note or other instrument representing the debt if not issued in book entry form; and
 - any other terms of the debt securities.

Covenants

The supplemental indenture with respect to any particular series of debt securities may contain covenants including, without limitation, covenants restricting or limiting:

- the incurrence of additional debt by us and our subsidiaries;
- the making of various payments, including dividends, by us and our subsidiaries;
 - our business activities and those of our subsidiaries;
 - the issuance of other securities by our subsidiaries;
 - asset dispositions;
 - sale-leaseback transactions;
 - transactions with affiliates;
 - a change of control;
 - the incurrence of liens; and
- mergers and consolidations involving us and our subsidiaries.

For purposes of this prospectus, any reference to the payment of principal of or premium or interest, if any, on debt securities will include additional amounts if required by the terms of the debt securities, subject to the maximum offering amount under this prospectus.

The indenture does not limit the amount of debt securities that may be issued thereunder from time to time. The indenture also provides that there may be more than one trustee thereunder, with respect to one or more different series of indenture securities. See “—Resignation of Trustee,” below. At a time when two or more trustees are acting under the indenture, each with respect to only certain series, the term “indenture securities” means the one or more series of debt securities with respect to which each respective trustee is acting. In the event that there is more than one trustee under the indenture, the powers and trust obligations of each trustee described in this prospectus will extend only to the one or more series of indenture securities for which it is trustee. If two or more trustees are acting under the indenture, then the indenture securities for which each trustee is acting would be treated as if issued under separate indentures.

We have the ability to issue indenture securities with terms different from those of indenture securities previously issued and, without the consent of the holders thereof, to reopen a previous issue of a series of indenture securities and issue additional indenture securities of that series unless the reopening was restricted when that series was created.

Table of Contents

Methods of Calculating and Paying Interest on our Debt Securities

Each series of our debt securities will bear interest at a fixed or variable rate per annum shown on the front cover of the prospectus supplement under which that series is issued.

Provisions Relating Only to the Senior Debt Securities

The senior debt securities will rank equally in right of payment with all of our other senior and unsubordinated debt and senior in right of payment to any of our subordinated debt, including the subordinated debt securities. The senior debt securities will be effectively subordinated to all of our secured debt and to all debt, including trade debt, of our subsidiaries. We will disclose the amount of our secured debt in the prospectus supplement.

Provisions Relating Only to the Subordinated Debt Securities

The subordinated debt securities will rank junior in right of payment to all of our senior indebtedness. Senior indebtedness will be defined to include all notes or other evidences of debt not expressed to be subordinate or junior in right of payment to any of our other debt. The debt will be structurally subordinated to all debt, including trade debt, of our subsidiaries.

If the offered securities are subordinated debt securities, the supplemental indenture may provide that no cash payment of principal, interest and any premium on the subordinated debt securities may be made:

- if we fail to pay when due any amounts on any senior indebtedness;
- if our property is, or we are, involved in any voluntary or involuntary liquidation or bankruptcy; and
- in other instances specified in the supplemental indenture.

Conversion or Exchange Rights

If any series of our debt securities are convertible or exchangeable, the applicable prospectus supplement will specify:

- the type of securities into which it may be converted or exchanged;
- the conversion price or exchange ratio, or its method of calculation; and
- how the conversion price or exchange ratio may be adjusted if our debt securities are redeemed.

Events of Default

Unless otherwise specified in the applicable prospectus supplement, the following will be events of default with respect to any series of debt securities:

- default for 30 days in the payment when due of interest on the debt securities;
- default in payment when due of the principal of or any premium on the debt securities;
- default in the performance or breach of various covenants after applicable notice and/or grace period; and

- various events of bankruptcy or insolvency with respect to us.

Table of Contents

The applicable prospectus supplement will describe any additional events of default.

If an event of default occurs with respect to debt securities of a series then outstanding and is continuing, then the trustee or the holders of not less than 25% in principal amount of the debt securities of that series then outstanding, by a notice in writing to FalconStor (and to the trustee if given by the holders), may, and the trustee at the request of such holders shall, declare the principal amount (or, if the debt securities of that series are original issue discount securities, such portion of the principal amount as may be specified in the terms of that series) of, premium, if any, and accrued interest on all of the debt securities of that series to be due and payable immediately, and the same (or specified portion thereof) shall become immediately due and payable. A declaration of default under the indenture or under other payment obligations could give rise to cross-defaults and acceleration with respect to the debt securities or such other payment obligations.

At any time after a declaration of acceleration with respect to debt securities of any series (or of all series, as the case may be) has been made and before a judgment or decree for payment of the money due has been obtained by the trustee as provided in the indenture, the holders of a majority in principal amount of the debt securities of that series (or of all series, as the case may be) then outstanding, by written notice to FalconStor and the trustee, may rescind such declaration and its consequences under the circumstances specified in the applicable debenture.

The indenture will provide that no such rescission shall affect any subsequent default or impair any right consequent thereon.

With respect to the debt securities of any series, the holders of not less than a majority in principal amount of the debt securities of such series then outstanding shall have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee, or exercising any trust or power conferred on the trustee, provided that:

- such direction shall not be in conflict with any rule of law or with the indenture;
- the trustee may take any other action deemed proper by the trustee which is not inconsistent with such direction; and
- the trustee need not take any action which might involve it in personal liability or be unjustly prejudicial to the holders of debt securities of such series not consenting.

No holder of any debt security of any series or any related coupons shall have any right to institute any proceeding, judicial or otherwise, with respect to the indenture, or for the appointment of a receiver or trustee, or for any other remedy hereunder, unless:

- the holder has previously given written notice to the trustee of a continuing event of default with respect to the debt securities of that series;
- the holders of not less than 25% in principal amount of the debt securities of that series then outstanding shall have made written request to the trustee to institute proceedings in respect of the event of default in its own name as trustee under the indenture;
- such holder or holders have offered to the trustee indemnity reasonably satisfactory to the trustee against the costs, expenses and liabilities to be incurred in compliance with such request;
- the trustee for 60 days after its receipt of such notice, request and offer of indemnity, has failed to institute any such proceeding; and

- no direction inconsistent with such written request has been given to the trustee during such 60-day period by the holders of a majority or more in principal amount of the debt securities of that series then outstanding.

Table of Contents

However, no holder of a debt security has the right under the indenture to affect, disturb or prejudice the rights of any other holders of debt securities of the same series, or to obtain or to seek to obtain priority or preference over any other of such holders or to enforce any right under the indenture, except in the manner provided in the indenture and for the equal and ratable benefit of all holders of debt securities of the same series.

Every year we will be required to deliver to the trustee a certificate as to our performance of our obligations under the indenture and as to any defaults.

Mergers, Consolidations and Certain Sale of Assets

Unless otherwise specified in the applicable prospectus supplement, the indenture will provide that we may not:

- consolidate with or merge into any other person or entity or permit any other person or entity to consolidate with or merge into us in a transaction in which we are not the surviving entity, or
 - transfer, lease or dispose of all or substantially all of our assets to any other person or entity unless:
- the resulting, surviving or transferee entity shall be a corporation organized and existing under the laws of the United States or any state thereof and such resulting, surviving or transferee entity shall expressly assume, by supplemental indenture, executed and delivered in form satisfactory to the trustee, all of our obligations under the debt securities and the indenture;
- immediately after giving effect to such transaction (and treating any indebtedness which becomes an obligation of the resulting, surviving or transferee entity as a result of such transaction as having been incurred by such entity at the time of such transaction), no default or event of default would occur or be continuing; and
- we shall have delivered to the trustee an officers' certificate and an opinion of counsel, each stating that such consolidation, merger or transfer and such supplemental indenture (if any) comply with the indenture.

Modification and Waiver

Unless otherwise specified in the applicable prospectus supplement, the indenture will provide that FalconStor and the trustee may amend or supplement the indenture or the debt securities without notice to or the consent of any holder for clarification, corrections, and legal compliance purposes, including as follows:

- to cure any ambiguity, defect or inconsistency;
- to provide for uncertificated debt securities in addition to or in place of certificated debt securities;
- to make any change that does not adversely affect the interests thereunder of any holder;
- to qualify the indenture under the Trust Indenture Act of 1939, as amended, or the Trust Indenture Act, or to comply with the requirements of the SEC in order to maintain the qualification of the indenture under the Trust Indenture Act;
- to evidence the succession of another person to FalconStor and that person's assumption of FalconStor's covenants;
 - to add to FalconStor's covenants;

Table of Contents

- to add any additional events of default;
- to secure the debt securities;
- to establish the form or terms of debt securities;
- to evidence the appointment of a successor trustee under the indenture;
- to close the indenture with respect to authentication and delivery of additional series of debt securities; or
- to supplement the indenture in order to permit the defeasance and discharge of any series of debt securities.

The indenture will provide that FalconStor and the trustee may make modifications and amendments to the indenture, and waive past defaults, with the consent of the holders of not less than a majority in aggregate principal amount at maturity of the outstanding debt securities in a series; provided, however, that no such modification or amendment may, without the consent of each holder affected thereby,

- change the stated maturity of the principal of, or any installment of interest on, any debt security;
- reduce the principal amount of, or premium, if any, or interest on, any debt security;
- reduce the amount of a debt security's principal that would be due and payable upon a declaration of acceleration, following a default;
- change the place of payment of, the currency of payment of principal of, or premium, if any, or interest on, any debt security;
- impair the right to institute suit for the enforcement of any payment on or after the stated maturity (or, in the case of a redemption, on or after the redemption date) of any debt security;
 - adversely affect any right to convert or exchange any debt security that is convertible or exchangeable; or
- reduce the stated percentage of outstanding debt securities the consent of whose holders is necessary to modify, or amend the indenture or waive a past default.

Governing Law

Any issued debt securities and the indenture will be governed by the laws of the state of New York.

Concerning the Trustee

The indenture will provide that, except during the continuance of an event of default or default, the trustee will not be liable, except for the performance of such duties as are specifically set forth in such indenture. If an event of default has occurred and is continuing, the trustee will use the same degree of care and skill in its exercise as a prudent person would exercise under the circumstances in the conduct of such person's own affairs.

The indenture and provisions of the Trust Indenture Act incorporated by reference in the indenture contain limitations on the rights of the trustee, should it become our creditor, to obtain payment of claims in certain cases or to realize on certain property received by it in respect of any such claims, as security or otherwise. The trustee is permitted to

engage in other transactions; provided, however, that if it acquires any conflicting interest, it must eliminate such conflict or resign.

Table of Contents

Defeasance

The following provisions will be applicable to each series of debt securities unless we state in the applicable prospectus supplement that the provisions of covenant defeasance and full defeasance will not be applicable to that series.

The indenture will provide that we will be deemed to have paid and will be discharged from any and all obligations in respect of any issued series of debt securities and the provisions of the indenture or will be released from our obligations to comply with covenants relating to those debt securities as described above or in the applicable prospectus supplement, (which may include obligations concerning subordination of our subordinated debt securities) if, among other things:

- we have irrevocably deposited with the trustee, in trust, money and/or U.S. Government Obligations (as defined in the indenture) that through the payment of interest and principal in respect of those monies and/or U.S. Government Obligations in accordance with their terms, will provide money in an amount sufficient to pay the principal of, premium, if any, and interest, if any, on the series of debt securities on the stated maturity of such payments and any applicable sinking fund or analogous payments in accordance with the terms of the indenture and the debt securities;
- such defeasance shall not result in a breach, or constitute a default, under the indenture or any other material agreement of FalconStor;
- we have delivered to the trustee either (i) an opinion of counsel to the effect that holders will not recognize additional income, gain or loss for U.S. federal income tax purposes as a result of FalconStor's exercise of the defeasance or covenant defeasance, or (ii) a ruling directed to the trustee received from the Internal Revenue Service to the same effect as the aforementioned opinion of counsel; and
- FalconStor has delivered to the trustee an officer's certificate and an opinion of counsel, each stating that all the conditions precedent to full defeasance have been complied with.

In the event we exercise our option to omit compliance with certain covenants and provisions of the indenture with respect to a series of debt securities and the debt securities are declared due and payable because of the occurrence of an event of default that remains applicable, the amount of money and/or U.S. Government Obligations on deposit with the trustee will be sufficient to pay amounts due on the debt securities at the time of their stated maturity but may not be sufficient to pay amounts due on the debt securities at the time of the acceleration resulting from such event of default, however, we will remain liable for such payments.

We cannot defease our obligations to register the transfer or exchange of our debt securities; to replace our debt securities that have been stolen, lost or mutilated; to maintain paying agencies; or to hold funds for payment in trust. We may not defease our obligations if there is a continuing event of default on securities issued under the applicable indenture, or if depositing amounts into trust would cause the trustee to have conflicting interests with respect to other of our securities.

Resignation of Trustee

Each trustee may resign or be removed with respect to one or more series of indenture securities provided that a successor trustee is appointed to act with respect to these series. In the event that two or more persons are acting as trustee with respect to different series of indenture securities under one of the indentures, each of the trustees will be a trustee of a trust separate and apart from the trust administered by any other trustee.

Table of Contents

Global Securities

We may issue debt securities as registered securities in book-entry form only. A global security represents one or any other number of individual debt securities. All debt securities represented by the same global security have the same terms.

Each debt security issued in book-entry form will be represented by a global security that we deposit with and register in the name of a financial institution or its nominee that we select. The financial institution that we select for this purpose is called the depository. Unless we specify otherwise in the applicable prospectus supplement, The Depository Trust Company, New York, New York, known as DTC, will be the depository for all debt securities issued in book-entry form.

A global security may not be transferred to or registered in the name of anyone other than the depository or its nominee, unless special termination situations arise. As a result of these arrangements, the depository, or its nominee, will be the sole registered owner and holder of all debt securities represented by a global security, and investors will be permitted to own only beneficial interests in a global security. Beneficial interests must be held by means of an account with a broker, bank or other financial institution that in turn has an account with the depository or with another institution that has an account with the depository. Thus, an investor whose security is represented by a global security will not be a holder of the debt security, but only an indirect holder of a beneficial interest in the global security.

As an indirect holder, an investor's rights relating to a global security will be governed by the account rules of the investor's financial institution and of the depository, as well as general laws relating to securities transfers. The depository that holds the global security will be considered the holder of the debt securities represented by the global security.

If debt securities are issued only in the form of a global security, an investor should be aware of the following:

- an investor cannot cause the debt securities to be registered in his or her name, and cannot obtain certificates for his or her interest in the debt securities, except in the special situations we describe below;
- an investor will be an indirect holder and must look to his or her own bank or broker for payments on the debt securities and protection of his or her legal rights relating to the debt securities;
- an investor may not be able to pledge his or her interest in a global security in circumstances where certificates representing the debt securities must be delivered to the lender or other beneficiary of the pledge in order for the pledge to be effective;
- the depository's policies, which may change from time to time, will govern payments, transfers, exchanges and other matters relating to an investor's interest in a global security. We and the trustee have no responsibility for any aspect of the depository's actions or for its records of ownership interests in a global security. We and the trustee also do not supervise the depository in any way;
 - DTC requires that those who purchase and sell interests in a global security deposited in its book-entry system use immediately available funds. Your broker or bank may also require you to use immediately available funds when purchasing or selling interests in a global security; and
- financial institutions that participate in the depository's book-entry system, and through which an investor holds its interest in a global security, may also have their own policies affecting payments, notices and other matters relating

to the debt security. There may be more than one financial intermediary in the chain of ownership for an investor. We do not monitor and are not responsible for the actions of any of those intermediaries.

Table of Contents

Generally, a global security will be terminated and interests in it will be exchanged for certificates in non-global form, referred to as certificated securities only in the following instances:

- if the depository notifies us and the trustee that it is unwilling or unable to continue as depository for that global security;
- if the depository ceases to be a clearing agency and we do not appoint another institution to act as depository within 90 days;
 - if we determine that we wish to terminate that global security; or
- if an event of default has occurred with regard to the debt securities represented by that global security and has not been cured or waived, and the owner of beneficial interests in the global security requests that certificated securities be delivered; we discuss defaults above under “Events of Default.”

The prospectus supplement may list situations for terminating a global security that would apply only to the particular series of debt securities covered by the prospectus supplement. If a global security is terminated, only the depository, and not we or the applicable trustee, is responsible for deciding the names of the institutions in whose names the debt securities represented by the global security will be registered and, therefore, who will be the holders of those debt securities.

Payment and Paying Agent

Unless specified otherwise in a prospectus supplement, in the event certificated registered debt securities are issued, the holders of certificated registered debt securities will be able to receive payments of principal and of interest on their debt securities at the office of the paying agent. All payments of interest may be received at the offices of such paying agent upon presentation of certificated debt securities and all payments of principal may be received at such offices upon surrender of the debt securities. We also have the option of mailing checks or making wire transfers to the registered holders of the debt securities. Unless specified otherwise in a prospectus supplement, we will maintain a paying agent for the debt securities in The City of New York at all times that payments are to be made in respect of the debt securities and, if and so long as the debt securities remain outstanding.

Selling Stockholders

The selling stockholders named in the table below may from time to time on a delayed or continuous basis offer and sell pursuant to this prospectus and any applicable prospectus supplement the shares set forth in the table below. The selling stockholders may sell all, a portion or none of the shares included in the table below at any time. The information regarding shares beneficially owned after the offering assumes the sale of all shares offered by the selling stockholders.

The selling stockholders have advised the Company that notwithstanding their inclusion as a selling stockholder in this prospectus, they may continue to evaluate whether to make purchases of the Company’s common stock. Such purchases, if any, would be in accordance with the applicable provisions of the Exchange Act and the rules and regulations under the Exchange Act, including Regulation M. We may amend or supplement this prospectus from time to time in the future to update or change this selling security holder list and the securities that may be resold.

For purposes of this table, beneficial ownership is determined by rules promulgated by the SEC and the information is not necessarily indicative of beneficial ownership for any other purpose. Under these rules, beneficial ownership includes any shares over which the individual has sole or shared voting power or investment power and also any

shares which the individual has the right to acquire within 60 days after February 16, 2016, through the exercise of any stock option or other right.

Table of Contents

Name of Selling Stockholder	Number of Shares of Common Stock Beneficially Owned Prior	Number of Shares of Common Stock Offered Hereby	Shares of Common Stock Beneficially Owned After this Offering	
	to the Offering		Number	Percent
Cumulus Logic LLC (1)	253,535	253,535	-	-%

(1) Such shares of common stock were issued pursuant to the terms of a Software License and Development Agreement between the Company and Cumulus Logic LLC. Cumulus Logic LLC may also receive additional shares of common stock pursuant to the terms of such Software License and Development Agreement.

Plan of Distribution

We and/or a selling stockholder may sell the securities in and outside the United States through underwriters or dealers, directly to purchasers, including our affiliates, through agents, or through a combination of any of these methods. The selling stockholders may be deemed to be an underwriter, as defined in Section 2(a)(11) of the Securities Act of 1933, as amended. The prospectus supplement will include the following information:

- the terms of the offering;
- the names of any underwriters, dealers or agents;
- the name or names of any managing underwriter or underwriters;
- the purchase price of the securities;
- the net proceeds from the sale of the securities;
- any delayed delivery arrangements;
- any underwriting discounts, commissions and other items constituting underwriters' compensation;
- any public offering price;
- any discounts or concessions allowed or reallocated or paid to dealers;
- any commissions paid to agents; and
- the terms of any arrangement entered into with any dealer or agent.

Sale Through Underwriters or Dealers

If underwriters are used in the sale of any of these securities, the underwriters will acquire the securities for their own account. The underwriters may resell the securities from time to time in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale. Underwriters may offer securities to the public either through underwriting syndicates represented by one or more managing underwriters or

directly by one or more firms acting as underwriters. Unless we and/or the selling stockholders inform you otherwise in any prospectus supplement, the obligations of the underwriters to purchase the securities will be subject to certain conditions, and the underwriters will be obligated to purchase all the offered securities if they purchase any of them. The underwriters may change from time to time any public offering price and any discounts or concessions allowed or reallocated or paid to dealers.

Table of Contents

During and after an offering through underwriters, the underwriters may purchase and sell the securities in the open market. These transactions may include overallotment and stabilizing transactions and purchases to cover syndicate short positions created in connection with the offering. The underwriters may also impose a penalty bid, which means that selling concessions allowed to syndicate members or other broker-dealers for the offered securities sold for their account may be reclaimed by the syndicate if the offered securities are repurchased by the syndicate in stabilizing or covering transactions. These activities may stabilize, maintain or otherwise affect the market price of the offered securities, which may be higher than the price that might otherwise prevail in the open market. If commenced, the underwriters may discontinue these activities at any time.

If dealers are used in the sale of securities, we and/or the selling stockholders will sell the securities to them as principals. They may then resell those securities to the public at varying prices determined by the dealers at the time of resale. We and/or the selling stockholders will include in the prospectus supplement the names of the dealers and the terms of the transaction.

The selling stockholders are subject to the applicable provisions of the Exchange Act and the rules and regulations under the Exchange Act, including Regulation M. This regulation may limit the timing of purchases and sales of any of the shares of common stock offered in this prospectus by the selling stockholders. The anti-manipulation rules under the Exchange Act may apply to sales of shares in the market and to the activities of the selling stockholders and their affiliates. Furthermore, Regulation M may restrict the ability of any person engaged in the distribution of the shares to engage in market-making activities for the particular securities being distributed for a period of up to five business days before the distribution. The restrictions may affect the marketability of the shares and the ability of any person or entity to engage in market-making activities for the shares.

Direct Sales and Sales Through Agents

We and/or the selling stockholders may sell the securities directly, and not through underwriters or agents. Securities may also be sold through agents designated from time to time. In the prospectus supplement, we and/or the selling stockholders will name any agent involved in the offer or sale of the offered securities, and we and/or the selling stockholders will describe any commissions payable to the agent. Unless we and/or the selling stockholders inform you otherwise in the prospectus supplement, any agent will agree to use its reasonable best efforts to solicit purchases for the period of its appointment.

We and/or the selling stockholders may sell the securities directly to institutional investors or others who may be deemed to be underwriters within the meaning of the Securities Act, as amended, or the Securities Act, with respect to any sale of those securities. We and/or the selling stockholders will describe the terms of any such sales in the prospectus supplement.

Delayed Delivery Contracts

One of the selling stockholders is a limited liability company. To the extent that it makes a pro rata in-kind distribution of the shares of common stock to its members pursuant to the registration statement of which this prospectus is a part by delivering a prospectus and such members are not affiliates of ours, such members would thereby receive freely tradable shares of common stock pursuant to the distribution.

If we and/or the selling stockholders so indicate in the prospectus supplement, we may authorize agents, underwriters or dealers to solicit offers from certain types of institutions to purchase securities from us at the public offering price under delayed delivery contracts. These contracts would provide for payment and delivery on a specified date in the future. The contracts would be subject only to those conditions described in the prospectus supplement. The prospectus supplement will describe the commission payable for solicitation of those contracts.

General Information

We and/or the selling stockholders may have agreements with the agents, dealers and underwriters to indemnify them against certain civil liabilities, including liabilities under the Securities Act, or to contribute with respect to payments that the agents, dealers or underwriters may be required to make. Agents, dealers and underwriters may be customers of, engage in transactions with or perform services for, us and/or the selling stockholders in the ordinary course of their businesses.

Table of Contents

Legal Matters

Unless otherwise indicated in the applicable prospectus supplement, the validity of the securities offered hereby will be passed upon for us by Olshan Frome Wolosky LLP, New York, New York.

Experts

The consolidated financial statements of FalconStor Software, Inc. and subsidiaries as of December 31, 2014, and for the years ended December 31, 2014 and 2013, have been incorporated by reference herein in reliance on the report of KPMG LLP, independent registered public accounting firm, incorporated by reference herein, and upon the authority of said firm as experts in accounting and auditing.

The financial statements as of December 31, 2015 and for year ended December 31, 2015 and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2015 incorporated by reference in this prospectus have been so incorporated in reliance on the reports of BDO USA, LLP, an independent registered public accounting firm, incorporated herein by reference, given upon the authority of said firm as experts in auditing and accounting.

Where You Can Find More Information

We are subject to the reporting requirements of the Securities Exchange Act of 1934, as amended, and file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy these reports, proxy statements and other information at the SEC's public reference facilities at 100 F Street, N.E., Room 1580, Washington, D.C. 20549. You can request copies of these documents by writing to the SEC and paying a fee for the copying cost. Please call the SEC at 1-800-SEC-0330 for more information about the operation of the public reference facilities. SEC filings are also available at the SEC's web site at <http://www.sec.gov>.

We have filed with the SEC a registration statement under the Securities Act relating to the offering of these securities. The registration statement, including the attached exhibits, contains additional relevant information about us and the securities. This prospectus does not contain all of the information set forth in the registration statement. You can obtain a copy of the registration statement, at prescribed rates, from the SEC at the address listed above.

The registration statement and the documents referred to below under "Incorporation by Reference" are also available on our Internet website www.falconstor.com. We have not incorporated by reference into this prospectus the information on our website, and you should not consider it to be a part of this prospectus.

Incorporation of Documents by Reference

The SEC allows us to incorporate by reference the information we file with it, which means that we can disclose important information to you by referring you to those documents. The information we incorporate by reference is considered to be part of this prospectus, and information that we file later with the SEC will automatically update and supersede information contained in this prospectus and any accompanying prospectus supplement. We incorporate by reference the documents listed below and any future filings made by us with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 (excluding any portions of any Form 8-K that are not deemed "filed" pursuant to the General Instructions of Form 8-K). The documents we are incorporating by reference are as follows:

- (1) Our Annual Report on Form 10-K for the year ended December 31, 2015;

- (2) The description of our common stock contained in our registration statement on Form 8-A declared effective by the SEC on June 28, 1994, including any amendments or reports filed for the purpose of updating that description.

Table of Contents

All documents filed pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act, after the date of this registration statement and prior to the termination of the offering, shall be deemed to be incorporated by reference into this registration statement and to be a part hereof from the date of filing of such documents, provided, however, that the registrant is not incorporating any information furnished under either Item 2.02 or Item 7.01 of any Current Report on Form 8-K.

Any document, and 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 prospectus to the extent that a statement contained herein, or in any other subsequently filed document that also is incorporated or deemed to be incorporated by reference herein, modifies or supersedes such document or statement. Any such document or statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

The documents incorporated by reference in this prospectus may be obtained from us without charge and will be provided to each person, including any beneficial owner, to whom a prospectus is delivered. You may obtain a copy of the documents at no cost by submitting an oral or written request to:

FalconStor Software, Inc.
2 Huntington Quadrangle
Suite 2S01
Melville, New York 11747
Attention: Chief Financial Officer
(631) 777-5188

Additional information about us is available at our web site located at <http://www.falconstor.com/>. Information contained in our web site is not a part of this prospectus.

Table of Contents

Until _____, 2016, all dealers that effect transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This is in addition to the dealers' obligation to deliver a prospectus when acting as underwriters and with respect to their unsold allotments or subscriptions.

\$30,000,000

FalconStor Software, Inc.

Common Stock

Preferred Stock

Warrants

Rights

Debt Securities

Prospectus

Table of Contents

PART II

Information Not Required In Prospectus

Item 14. Other Expenses of Issuance and Distribution

The following is an estimate, subject to future contingencies, of the expenses to be incurred by the Registrant in connection with the issuance and distribution of the securities being registered:

Registration Fee	\$3,021
Legal Fees and Expenses	*
Accounting Fees and Expenses	*
Federal Tax Expenses	*
Blue Sky Fees and Expenses	*
Printing and Engraving Fees	*
Miscellaneous	*
TOTAL	*

*These fees are calculated based on the number of issuances and amount of securities offered and accordingly cannot be estimated at this time.

Item 15. Indemnification of Directors and Officers

As permitted by the DGCL, the Company's Restated Certificate of Incorporation, as amended, limits the personal liability of a director or officer to the Company for monetary damages for breach of fiduciary duty of care as a director. Liability is not eliminated for (i) any breach of the director's duty of loyalty to the Company or its stockholders, (ii) acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) unlawful payment of dividends or stock purchase or redemptions pursuant to Section 174 of the DGCL, or (iv) any transaction from which the director derived an improper personal benefit.

Delaware Law

The Company is subject to Section 203 of the DGCL, which prevents an "interested stockholder" (defined in Section 203, generally, as a person owning 15% or more of a corporation's outstanding voting stock) from engaging in a "business combination" with a publicly-held Delaware corporation for three years following the date such person became an interested stockholder, unless: (i) before such person became an interested stockholder, the board of directors of the corporation approved the transaction in which the interested stockholder became an interested stockholder or approved the business combination; (ii) upon consummation of the transaction that resulted in the interested stockholder's becoming an interested stockholder, the interested stockholder owns at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced (subject to certain exceptions), or (iii) following the transaction in which such person became an interested stockholder, the business combination is approved by the board of directors of the corporation and authorized at a meeting of stockholders by the affirmative vote of the holders of 66% of the outstanding voting stock of the corporation not owned by the interested stockholder. A "business combination" includes mergers, stock or asset sales and other transactions resulting in a financial benefit to the interested stockholder.

The provisions of Section 203 of the DGCL could have the effect of delaying, deferring or preventing a change in the control of the Company.

The Company maintains directors and officers insurance and a company reimbursement policy. The policy insures directors and officers against unindemnified loss arising from certain wrongful acts in their capacities and reimburses the Company for such loss for which the Company has lawfully indemnified the directors and officers. The policy contains various exclusions, none of which relate to the offering hereunder. The Company also has agreements with its directors and officers providing for the indemnification thereof under certain circumstances.

II-1

Table of Contents

Item 16. Exhibits.

Exhibit Number	Description
1.1	Form of Underwriting Agreement*
3.1	Restated Certificate of Incorporation, incorporated herein by reference to Exhibit 3.1 to the Registrant's registration statement on Form S-1 (File no. 33-79350), filed on April 28, 1994.
3.2	Amended and Restated By-Laws of FalconStor Software, Inc., incorporated herein by reference to Exhibit 3.2 to the Registrant's annual report on Form 10-K for the year ended December 31, 2010, filed on March 14, 2011.
3.3	Certificate of Amendment to the Restated Certificate of Incorporation, incorporated herein by reference to Exhibit 3.3 to the Registrant's annual report on Form 10-K for the year ended December 31, 1998, filed on March 22, 1999.
3.4	Certificate of Amendment to the Restated Certificate of Incorporation, incorporated herein by reference to Exhibit 3.4 to the Registrant's annual report on Form 10-K for the year ended December 31, 2001, filed on March 27, 2002.
3.5	Certificate of Designations, Preferences and Rights of Series A Convertible Preferred Stock, incorporated herein by reference to Exhibit 4.1 to the Registrant's report on Form 8-K dated September 16, 2013.
4.2	Form of Senior or Subordinated Indenture**
4.3	Form of Senior Debt Security*
4.4	Form of Subordinated Debt Security*
4.5	Form of Certificate of Designation of Preferred Stock*
4.6	Form of Certificate for Preferred Stock*
4.7	Form of Warrant*
4.8	Form of Warrant Agreement*
4.9	Form of Rights Agreement and Right Certificate*
5.1	Opinion of Olshan Frome Wolosky LLP**
12.1	Computation of Ratio/Deficiency of Earnings to Fixed Charges*
23.1	Consent of KPMG LLP, Independent Registered Public Accounting Firm**
23.2	Consent of BDO USA, LLP, Independent Registered Public Account Firm**
23.3	Consent of Olshan Frome Wolosky LLP (included in Exhibit 5.1)
24	Power of Attorney (included on the signature page hereto)

* To be filed with a Current Report on Form 8-K or a Post-Effective Amendment to the registration statement.

** Filed herewith.

Table of Contents

Item 17. Undertakings

The undersigned Registrant hereby undertakes:

To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

- (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933.
- (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.
- (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that paragraphs (i), (ii) and (iii) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) If the Registrant is relying on Rule 430B:

(A) Each prospectus filed by the Registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(B) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the

initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

II-3

Table of Contents

(ii) If the Registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such first use, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such date of first use.

That, for the purpose of determining liability of the Registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities the undersigned Registrant undertakes that in a primary offering of securities of the undersigned Registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned Registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

- (i) Any preliminary prospectus or prospectus of the undersigned Registrant relating to the offering required to be filed pursuant to Rule 424;
- (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned Registrant or used or referred to by the undersigned Registrant;
- (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned Registrant or its securities provided by or on behalf of the undersigned Registrant; and
- (iv) Any other communication that is an offer in the offering made by the undersigned Registrant to the purchaser.

That, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

The undersigned Registrant hereby undertakes to file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Securities and Exchange Commission under Section 305(b)(2) of the Trust Indenture Act.

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the provisions described in Item 15 above, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed

in the Act and will be governed by the final adjudication of such issue.

II-4

Table of Contents

Signatures

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Melville, New York, on February 17, 2016.

FALCONSTOR SOFTWARE, INC.

By: /s/ Gary Quinn
 Name: Gary Quinn
 Title: President and Chief Executive Officer (principal executive officer)

By: /s/ Louis J. Petrucelly
 Name: Louis J. Petrucelly
 Title: Executive Vice President, Chief Financial Officer and Treasurer (principal financial and accounting officer)

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Gary Quinn and Louis J. Petrucelly, and each or either of them, his true and lawful attorney-in-fact, with full power of substitution and resubstitution for him and in his name, place and stead, in any and all capacities to sign any and all amendments including pre- and post-effective amendments to this registration statement, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, hereby ratifying and confirming all that said attorney-in-fact or his substitute, each acting alone, may lawfully do or cause to be done by virtue thereof.

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Gary Quinn Gary Quinn	President, Chief Executive Officer and Director (principal executive officer)	February 17, 2016
/s/ Louis J. Petrucelly Louis J. Petrucelly	Executive Vice President, Chief Financial Officer and Treasurer (principal financial and accounting officer)	February 17, 2016
/s/ Steven R. Fischer Steven R. Fischer	Director	February 17, 2016

/s/ Alan W. Kaufman
Alan W. Kaufman

Director

February 17, 2016

/s/ Irwin Lieber
Irwin Lieber

Director

February 17, 2016

/s/ Eli Oxenhorn
Eli Oxenhorn

Chairman of the Board

February 17, 2016

II-5

Table of Contents

/s/ Barry Rubenstein Barry Rubenstein	Director	February 17, 2016
/s/ Martin Hale Jr. Martin Hale Jr.	Director	February 17, 2016
/s/ Michael Kelly Michael Kelly	Director	February 17, 2016

II-6

Table of Contents

EXHIBIT INDEX

Exhibit Number	Description
1.1	Form of Underwriting Agreement*
3.1	Restated Certificate of Incorporation, incorporated herein by reference to Exhibit 3.1 to the Registrant's registration statement on Form S-1 (File no. 33-79350), filed on April 28, 1994.
3.2	Amended and Restated By-Laws of FalconStor Software, Inc., incorporated herein by reference to Exhibit 3.2 to the Registrant's annual report on Form 10-K for the year ended December 31, 2010, filed on March 14, 2011.
3.3	Certificate of Amendment to the Restated Certificate of Incorporation, incorporated herein by reference to Exhibit 3.3 to the Registrant's annual report on Form 10-K for the year ended December 31, 1998, filed on March 22, 1999.
3.4	Certificate of Amendment to the Restated Certificate of Incorporation, incorporated herein by reference to Exhibit 3.4 to the Registrant's annual report on Form 10-K for the year ended December 31, 2001, filed on March 27, 2002.
3.5	Certificate of Designations, Preferences and Rights of Series A Convertible Preferred Stock, incorporated herein by reference to Exhibit 4.1 to the Registrant's report on Form 8-K dated September 16, 2013.
4.2	Form of Senior or Subordinated Indenture**
4.3	Form of Senior Debt Security*
4.4	Form of Subordinated Debt Security*
4.5	Form of Certificate of Designation of Preferred Stock*
4.6	Form of Certificate for Preferred Stock*
4.7	Form of Warrant*
4.8	Form of Warrant Agreement*
4.9	Form of Rights Agreement and Right Certificate*
5.1	Opinion of Olshan Frome Wolosky LLP**
12.1	Computation of Ratio/Deficiency of Earnings to Fixed Charges*
23.1	Consent of KPMG LLP, Independent Registered Public Accounting Firm**
23.2	Consent of BDO USA, LLP, Independent Registered Public Account Firm**
23.3	Consent of Olshan Frome Wolosky LLP (included in Exhibit 5.1)
24	Power of Attorney (included on the signature page hereto)

* To be filed with a Current Report on Form 8-K or a Post-Effective Amendment to the registration statement.

** Filed herewith.