

Precipio, Inc.
Form DEF 14A
November 27, 2018
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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

**SCHEDULE 14A
(RULE 14a-101)**

**Proxy Statement Pursuant to Section 14(a) of the
Securities Exchange Act of 1934**

Filed by the Registrant Filed by a Party other than the Registrant ☐

Check the appropriate box:

- ☐ Preliminary Proxy Statement
- ☐ **Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))**
 - Definitive Proxy Statement
- ☐ Definitive Additional Materials
- ☐ Soliciting Material under §240.14a-12

PRECIPIO, INC.
(Name of Registrant as Specified In Its Charter)

N/A
(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

☐ No fee required.

☐ Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

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(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:

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4 Science Park

New Haven, Connecticut 06511

NOTICE OF SPECIAL MEETING OF STOCKHOLDERS

To Be Held On December 20, 2018

To Our Stockholders:

Notice is hereby given that a special meeting of stockholders (the **Special Meeting**) of Precipio, Inc., a Delaware corporation (the **Company** or **Precipio**), will be held at the Company's principal executive offices, 4 Science Park, New Haven, CT 06511, on December 20, 2018, at 10:00 a.m. (local time), for the following purposes (which are more fully described in the proxy statement, which is attached hereto and made a part of this Notice):

1. To approve an amendment to Company's Third Amended and Restated Certificate of Incorporation to increase the total number of authorized shares of common stock from 150,000,000 shares to 250,000,000 shares (**Proposal One -Authorized Stock Increase Proposal**).
To authorize the Company's Board of Directors to, in its discretion, to amend the Company's Third Amended and Restated Certificate of Incorporation to effect a reverse stock split at a ratio not less than 1-for-2 and not greater than 1-for-30, with the exact ratio to be set within that range at the discretion of our Board of
2. Directors at any time prior to December 20, 2019 without further approval or authorization of our stockholders (**Proposal Two - Reverse Split Proposal**). The Board of Directors may alternatively elect to abandon such proposed amendment and not effect the reverse stock split authorized by stockholders, in its sole discretion.
To approve, for purposes of complying with applicable NASDAQ Listing Rules, the potential issuance and sale of more than 20% of the Company's common stock pursuant to the Company's purchase agreement with
3. Lincoln Park Capital Fund LLC (**LPC**) pursuant to which LPC has agreed to purchase from us, from time to time, up to \$10,000,000 of our common stock (the **LPC Transaction**) (**Proposal Three - Nasdaq Limit Proposal in relation to the LPC Transaction**).
To approve for purposes of complying with applicable NASDAQ Listing Rules the potential issuance of more than 20% of the Company's common stock which may be issued by the Company to certain investors in connection with an amendment and restatement of the terms of that certain securities purchase agreement dated April 20, 2018 (the **Agreement**) to allow, inter alia, for the potential issuance of up to \$2,000,000 of additional Notes (the **Convertible Note Transaction**) (**Proposal Four - Nasdaq Limit Proposal in relation to the Convertible Note Transaction**).
4. To approve, for purposes of complying with applicable NASDAQ Listing Rules, the potential issuance of more than 20% of the Company's common stock to certain of the Company's creditors and/or claimholders in exchange for cancellation of existing indebtedness (**Proposal Five - Settlement Issuances Transaction**).
To approve, for purposes of complying with applicable NASDAQ Listing Rules, the issuance of more than
5. 20% of the Company's issued and outstanding common stock in a certain offering (**Proposal Six – Certain Offering Issuance**)
6. To approve the adjournment of the Special Meeting to a later date or dates, if necessary or appropriate, to solicit additional proxies if there are insufficient votes to adopt certain of the above proposals (**Proposal Seven – Adjournment**);
7. To transact such other business as may properly come before the meeting or any adjournments or postponements thereof.
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Pursuant to the Amended and Restated Bylaws of the Company, no business is proper for consideration, or may be acted upon, at the Special Meeting, except as set forth in this Notice of Special Meeting of Stockholders.

The Board of Directors recommends that stockholders vote FOR Proposal One: Authorized Stock Increase Proposal. The Board of Directors' reasons for seeking approval of the Authorized Stock Increase Proposal are set forth under Proposal One – To approve an amendment to our Third Amended and Restated Certificate of Incorporation to increase the Company's authorized shares of common stock to 250,000,000 in the attached Proxy Statement.

The Board of Directors recommends that stockholders vote FOR Proposal Two: Reverse Stock Split Proposal. The Board of Directors' reasons for seeking approval of the Reverse Stock Split Proposal are set forth under Proposal Two - Authorization of the Board to, in its discretion, amend our Third Amended and Restated Certificate of Incorporation to Effect a Reverse Stock Split of Our Common Stock at a Ratio of one-for-two (1:2) or not more than one-for-thirty (1:30), Such Ratio To Be Determined By The Board in the attached Proxy Statement.

The Board of Directors recommends that stockholders vote FOR Proposal Three: Nasdaq Limit Proposal in relation to the LPC Transaction. The Board of Directors' reasons for seeking approval of the Nasdaq Limit Proposal are set forth under Proposal Three - Proposal to Approve the Issuance of Securities in connection with a Purchase Agreement with Lincoln Park Capital Fund LLC in the attached Proxy Statement.

The Board of Directors recommends that stockholders vote FOR Proposal Four: Nasdaq Limit Proposal in Relation to the Convertible Note Transaction. The Board of Directors' reasons for seeking approval of the Nasdaq Limit Proposal are set forth under Proposal Four - Proposal to Approve the Issuance of Securities in connection with a Convertible Note Transaction in the attached Proxy Statement.

The Board of Directors recommends that stockholders vote FOR Proposal Five: Nasdaq Limit Proposal in relation to the Settlement Issuance Transaction. The Board of Directors' reasons for seeking approval of the Nasdaq Limit Proposal are set forth under Proposal Five - Proposal to Approve the Settlement Issuance Transaction in the attached Proxy Statement.

The Board of Directors recommends that stockholders vote FOR Proposal Six: Nasdaq Limit Proposal in relation to Certain Offering Issuance. The Board of Directors' reasons for seeking approval of the Nasdaq Limit Proposal are set forth under Proposal Six - Proposal to Approve Certain Offering Issuance in the attached Proxy Statement.

Adjournment of the Special Meeting - The vote on this proposal is a vote separate and apart from the vote on Proposals One through Six. Accordingly, you may vote in favor of any of those proposals and vote not to approve this Proposal Seven and vice versa.

Stockholders of record at the close of business on November 9, 2018 (the **Record Date**) are entitled to notice of, and to attend and to vote at, the Special Meeting and any postponement or adjournment thereof. This Notice of Special Meeting of Stockholders and the attached Proxy Statement are first being mailed to the Company's stockholders on or about November 25, 2018.

All stockholders are cordially invited to attend the Special Meeting in person. Stockholders of record as of the Record Date will be admitted to the Special Meeting and any postponement or adjournment thereof upon presentation of identification. Please note that if your shares are held in the name of a bank, broker, or other nominee, and you wish to vote in person at the Special Meeting, you must bring to the Special Meeting a statement or letter from your bank, broker or other nominee showing your ownership of shares as of the Record Date and a proxy from the record holder of the shares authorizing you to vote at the Special Meeting (such statement/letter and proxy are required in addition

to your personal identification).

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Whether or not you plan to attend the Special Meeting in person, you are encouraged to read the attached Proxy Statement and then cast your vote as promptly as possible in accordance with the instructions contained in the attached Proxy Statement. Even if you have given your proxy, you may still vote in person if you attend the Special Meeting and follow the instructions contained in the attached Proxy Statement.

By Order of the Board of Directors of
Precipio, Inc.

Sincerely,

/s/ Ilan Danieli

Ilan Danieli

President and Chief Executive Officer

New Haven, Connecticut
November 27, 2018

Your vote is important, whether or not you expect to attend the Special Meeting of Stockholders. You are urged to vote either via the Internet or telephone, or to mark, sign and date and promptly return the proxy in the stamped return envelope provided with such materials. Voting promptly will help avoid the additional expense of further solicitation to assure a quorum at the meeting.

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PRECIPIO, INC.

PROXY STATEMENT FOR THE SPECIAL MEETING OF STOCKHOLDERS

December 20, 2018

PROXY STATEMENT

The following information is furnished to each stockholder in connection with the foregoing Notice of Special Meeting of Stockholders of Precipio, Inc. to be held at the Company's principal executive offices, 4 Science Park, New Haven, CT 06511, on December 20, 2018, at 10:00 a.m. (local time). The enclosed proxy is for use at the special meeting of stockholders (the "Special Meeting") and any postponement or adjournment thereof. This proxy statement (this "Proxy Statement") and form of proxy are being mailed to stockholders on or about November 20, 2018. Unless the content requires otherwise, references to "Precipio," "the Company," "we," "our," and "us" in this Proxy Statement refer to Precipio, Inc. and its subsidiary.

In accordance with the Amended and Restated Bylaws of the Company (the "Bylaws"), the Special Meeting has been called for the following purposes:

1. To approve an amendment to Company's Third Amended and Restated Certificate of Incorporation to increase the total number of authorized shares of common stock from 150,000,000 shares to 250,000,000 shares (**Proposal One - Authorized Stock Increase Proposal**).
To authorize the Company's Board of Directors to, in its discretion, to amend the Company's Third Amended and Restated Certificate of Incorporation to effect a reverse stock split at a ratio not less than 1-for-2 and not greater than 1-for-30 at any time prior December 20, 2019, with the exact ratio to be set within that range at the discretion of our Board of Directors without further approval or authorization of our stockholders (**Proposal Two - Reverse Split Proposal**). The Board of Directors may alternatively elect to abandon such proposed amendment and not effect the reverse stock split authorized by stockholders, in its sole discretion.
2. To approve, for purposes of complying with applicable NASDAQ Listing Rules the potential issuance and sale of more than 20% of the Company's common stock pursuant to the Company's purchase agreement with Lincoln Park Capital Fund LLC (**LP**) pursuant to which LPC has agreed to purchase from us, from time to time, up to \$10,000,000 of our common stock, (the **LPC Transaction**) (**Proposal Three - Nasdaq Limit Proposal in relation to the LPC Transaction**).
To approve for purposes of complying with applicable NASDAQ Listing Rules the potential issuance of more than 20% of the Company's common stock which may be issued by the Company to certain investors in connection with an amendment and restatement of the terms of that certain securities purchase agreement dated April 20, 2018 (the **Agreement**) to allow, inter alia, for the potential issuance of up to \$2,000,000 of additional Notes (the **Convertible Note Transaction**) (**Proposal Four - Nasdaq Limit Proposal in relation to the Convertible Note Transaction**).
3. To approve, for purposes of complying with applicable NASDAQ Listing Rules, the potential issuance of more than 20% of the Company's common stock to certain of the Company's creditors and/or claimholders in exchange for cancellation of indebtedness (**Proposal Five - Settlement Issuances Transaction**).
4. To approve, for purposes of complying with applicable NASDAQ Listing Rules, the issuance of more than 20% of the Company's issued and outstanding common stock in a certain offering (**Proposal Six - Certain Offering Issuance**).
5. To approve the adjournment of the Special Meeting to a later date or dates, if necessary or appropriate, to solicit additional proxies if there are insufficient votes to adopt certain of the above proposals.
- 6.
- 7.
- 8.

To transact such other business as may properly come before the meeting or any adjournments or postponements thereof.

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Pursuant to the Bylaws, no business is proper for consideration, or may be acted upon, at the Special Meeting, except as set forth in the Notice of Special Meeting of Stockholders.

Shares represented by duly executed and unrevoked proxies will be voted at the Special Meeting and any postponement or adjournment thereof in accordance with the specifications made therein. **If no such specification is made, shares represented by duly executed and unrevoked proxies will be voted FOR Proposals one to Six.**

Questions and Answers about the Special Meeting and Voting

1. *Why am I receiving these materials?*

The Company sent you this Proxy Statement and enclosed proxy card because the Board of Directors is soliciting your proxy to vote at the Special Meeting. The Company intends to mail this Proxy Statement and accompanying proxy card on or about November 24, 2018 to all stockholders of record entitled to vote at the Special Meeting.

2. *What is the purpose of the Special Meeting?*

At the Special Meeting, the stockholders will act upon the matters outlined in the Notice of Special Meeting of Stockholders.

3. *Who can vote at the Special Meeting?*

Only stockholders of record at the close of business on November 9, 2018 (the **Record Date**). Each stockholder will be entitled to cast one vote on the proposal presented at the Special Meeting for each share of Common Stock that such holder owned as of the Record Date.

4. *What are my voting rights?*

Holders of Common Stock are entitled to one vote per share. As of November 7, 2018, a total of 30,171,697 shares of Common Stock were outstanding. There is no cumulative voting.

5. *How do I cast my vote?*

If you are a stockholder of record on the Record Date, you may vote in person at the Special Meeting or authorize a proxy for the Special Meeting. You can authorize your proxy by completing, signing, dating and returning the enclosed proxy card in the accompanying pre-addressed, postage-paid envelope, or, if you prefer, by following the instructions on your proxy card for telephonic or Internet proxy authorization. If the telephone or Internet option is available to you, the Company strongly encourages you to use it because it is faster and less costly. Registered stockholders can transmit their voting instructions by telephone by calling 1-800-690-6903 or on the Internet at www.proxyvote.com. Telephone and Internet voting are available 24 hours a day until 11:59 p.m., Eastern Time, on the day immediately prior to the Special Meeting. Have your proxy card with you if you are going to authorize your proxy by telephone or through the Internet. To authorize your proxy by mail, please complete, sign, date and mail your proxy card in the envelope provided. If you attend the Special Meeting in person, you may request a ballot when you arrive.

6. *How do I change my vote?*

You may revoke your proxy and change your vote at any time before the final vote at the Special Meeting. You can revoke a proxy (i) by giving written revocation to the Company's secretary, (ii) delivering an executed, later-dated proxy or (iii) voting in person at the Special Meeting. However, your attendance at the Special Meeting will not automatically revoke your proxy unless you vote again at the meeting or specifically request in writing that your proxy be revoked. If your Common Stock is held in street name and you wish to change or revoke your voting instructions, you should contact your financial institution for information on how to do so.

7. You may vote **FOR**, **AGAINST** or **ABSTAIN** on each of the proposals.

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If you submit your proxy but abstain from voting on one or more matters, your shares will be counted as present at the meeting for the purpose of determining if a quorum exists. If you abstain from voting on a proposal, your abstention will have the effect of a vote against that proposal.

Broker non-votes occur when shares held by a broker for a beneficial owner are not voted either because (i) the broker did not receive voting instructions from the beneficial owner, or (ii) the broker lacked discretionary

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authority to vote the shares. Broker non-votes are counted for purposes of determining whether a quorum is present, but are not treated as votes cast and, therefore, will have the effect of a vote against proposals requiring the affirmative vote of the holders of the majority of the outstanding shares of our common stock and no effect on proposals requiring the affirmative vote of a majority of the votes cast. If your broker holds your shares in its name and you do not instruct your broker how to vote, your broker will only have discretion to vote your shares on routine matters. Where a proposal is not routine, a broker who has not received instructions from its clients does not have discretion to vote its clients uninstructed shares on that proposal. At our Special Meeting, only Proposals No. One regarding the increase in authorized shares is considered routine matter. Absent direction from you, your broker will therefore not have discretion to vote on Proposals No. Two, Three, Four, Five and Six. Accordingly, we encourage you to provide voting instructions to your broker, whether or not you plan to attend the meeting. This ensures your shares will be voted at the Special Meeting and in the manner you desire.

8. *Where and when will I be able to find the results of the voting?*

Preliminary results will be announced at the Special Meeting. The Company will publish the final results in a Current Report on Form 8-K to be filed with the Securities and Exchange Commission no later than four business days after the date of the Special Meeting.

9. *Where is the Special Meeting being held?*

We will hold the Special Meeting at the Company's principal executive offices, 4 Science Park, New Haven, CT 06511, on December 20, 2018, at 10:00 a.m. (local time), unless postponed or adjourned to a later date.

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PROPOSAL ONE

TO APPROVE AN AMENDMENT TO OUR THIRD AMENDED AND RESTATED CERTIFICATE OF INCORPORATION TO INCREASE THE COMPANY'S AUTHORIZED SHARES OF COMMON STOCK TO 250,000,000 SHARES

On November 8, 2018, our Board of Directors unanimously approved, subject to stockholder approval, an amendment to our Third Amended and Restated Certificate of Incorporation (the "Charter") to increase the number of shares of common stock authorized under the Charter for issuance by 100,000,000 shares of common stock, bringing the total number of shares of common stock authorized to 250,000,000 shares. The text of the proposed amendment (the "Charter Amendment") to the Third Amended and Restated Certificate of Incorporation is attached hereto as Annex A. This proposal to increase the number of shares of common stock authorized for issuance, if approved, will become effective and the Company's number of shares of authorized common stock will be increased to 250,000,000 shares upon the filing of the certificate of amendment with the Secretary of State of Delaware. The following discussion is qualified in its entirety by the full text of the Charter Amendment, which is incorporated herein by reference.

Reasons for the Increase

The Board believes that it is desirable to have additional authorized shares of common stock available for possible future financings, equity compensation, acquisitions and other general corporate purposes. The Board believes that having such additional authorized shares of common stock available for issuance under the Charter will give the Company increased flexibility and would allow such shares to be issued without the expense and delay of a special stockholders' meeting unless such approval is expressly required by applicable law. There are certain advantages and disadvantages of an increase in authorized common stock.

The advantages include:

- The ability to raise capital by issuing capital stock under the type of transactions described above, or other financing transactions.
- To have shares of common stock available to pursue certain business combinations or other expansion opportunities, if any.

The disadvantages include:

- The issuance of authorized but unissued stock could be used to deter a potential takeover of the Company that may otherwise be beneficial to stockholders by diluting the shares held by a potential suitor or issuing shares to a stockholder that will vote in accordance with the Board's desires. A takeover may be beneficial to independent stockholders because, among other reasons, a potential suitor may offer such stockholders a premium for their shares of stock compared to the then-existing market price. The Company does not have any plans or proposals to adopt provisions or enter into agreements that may have material anti-takeover consequences.
- None of our stockholders do not have any preemptive or similar rights to subscribe for or purchase any additional shares of common stock that may be issued in the future, and therefore, future issuances of common stock may, depending on the circumstances, have a dilutive effect on the earnings per share, voting power and other interests of existing stockholders of the Company.

Although an increase in the authorized shares of common stock could, under certain circumstances, have an anti-takeover effect, this proposal to adopt the amendment is not in response to any effort of which the Company is aware to accumulate common stock or obtain control of the Company. Nor is it part of a plan by management to recommend a series of similar amendments to the Board and stockholders.

If the Company's stockholders do not approve the increase in authorized shares of common stock, then the Company will not be able to increase the total number of authorized shares of common stock from 150,000,000 to 250,000,000, and therefore, the Company would be limited in its ability to use authorized shares of common stock for financings, acquisitions, issuing equity awards, or other general corporate purposes.

Our directors and executive officers have no substantial interests, directly or indirectly, in the matters set forth in this proposed amendment, except to the extent of their ownership in shares of our common stock and securities convertible or exercisable for common stock.

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Concurrent Approval of Reverse Stock Split

Concurrently with the approval of the increase in authorized shares of common stock, the Company's stockholders are also being asked to approve a reverse stock split at a ratio of any whole number between 1-for-2 and 1-for-30, as determined by the Board prior to December 20, 2019, and an amendment to the Company's Third Amended and Restated Certificate of Incorporation to implement the reverse stock split at any time prior to December 20, 2019, if and as determined by the Board of Directors (see Reverse Split Proposal (Proposal Two below)).

If the Reverse Split Proposal is approved by the Company's stockholders and a reverse stock split is effectuated, a reverse stock split would reduce, on a proportionate basis for each stockholder, the aggregate number of shares of common stock outstanding without reducing the total number of shares of common stock authorized for issuance, whether or not such number remains at 150,000,000 or is increased to 250,000,000 by this proposal.

The current proposal to increase the number of authorized shares of common stock to 250,000,000 has no bearing on the Board of Directors' ability to effect a reverse stock split, if concurrently authorized by stockholders pursuant to the Reverse Split Proposal (Proposal Two) below. The Board's determination as to whether to effect a reverse stock split and, if so, at what ratio, would be based on the same factors reported in the Reverse Split Proposal below.

Vote Required and Board of Directors Recommendation

Pursuant to the Delaware General Corporation Law, this proposal must be approved by the affirmative vote of a majority of the outstanding shares of common stock of the Company entitled to vote on the proposal. Abstentions and broker non-votes with respect to this proposal will be counted for purposes of establishing a quorum and, if a quorum is present, will have the same practical effect as a vote against this proposal.

THE BOARD OF DIRECTORS RECOMMENDS THAT THE YOU VOTE FOR PROPOSAL ONE

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PROPOSAL TWO

PROPOSAL TWO: AUTHORIZATION OF THE BOARD TO, IN ITS DISCRETION, AMEND OUR THIRD AMENDED AND RESTATED CERTIFICATE OF INCORPORATION TO EFFECT A REVERSE STOCK SPLIT OF OUR COMMON STOCK AT A RATIO OF ONE-FOR-TWO TO ONE-FOR-FIFTEEN, SUCH RATIO TO BE DETERMINED BY THE BOARD

On November 8, 2018, the Board unanimously adopted resolutions approving, declaring advisable and recommending to the stockholders for their approval a proposal to authorize the Board, in its discretion, to amend our Third Amended and Restated Certificate of Incorporation to effect a reverse stock split of our issued and outstanding common stock at a ratio in the range of one-for-two (1:2) or not more than one-for-thirty (1:30), such ratio to be determined by the Board. The form of proposed amendment to our Third Amended and Restated Certificate of Incorporation to effect a reverse stock split will be substantially as set forth on Annex B (subject to any changes required by applicable law). Pursuant to the law of Delaware, our state of incorporation, the Board must adopt any amendment to our Third Amended and Restated Certificate of Incorporation and submit the amendment to our stockholders for their approval. Approval of this proposal will grant the Board the authority (but not the obligation), without further action by the stockholders, to carry out such action any time prior to December 20, 2019, one year from the date of the Special Meeting, with the exact exchange ratio and timing to be determined at the discretion of the Board. The exchange ratio range of one-for-two (1:2) or not more than one-for-thirty (1:30) is based on the recent trading price of our common stock.

Purpose of the Reverse Stock Split

The Board is submitting the proposed reverse stock split to our stockholders for approval in order to reduce the number of issued and outstanding shares and to increase the per share trading value of our common stock. The Board believes that the proposed reverse stock split is desirable and should be approved by our stockholders for a number of reasons, including, without limitation, the following:

- The reverse stock split would help us to maintain our listing on the Nasdaq Capital Market. By potentially increasing the per share trading value of our common stock, the reverse stock split would reduce the risk that our common stock could be delisted from the Nasdaq Capital Market. To maintain our listing on the Nasdaq Capital Market, we must comply with Nasdaq Marketplace Rules, which requirements include a minimum bid price of \$1.00 per share. As previously reported, on March 26, 2018, we received a letter from Nasdaq that the closing bid price for our common stock had been below \$1.00 for the previous 30 consecutive business days, and that we were therefore not in compliance with the minimum bid price requirement for continued inclusion on The Nasdaq Capital Market under Nasdaq Listing Rule 5550(a)(2). The notice indicated that we would have 180 calendar days, or until September 24, 2018, to regain compliance with this requirement.

On September 25, 2018, Nasdaq notified us that we are eligible for an extension to comply with the minimum \$1.00 bid price requirement through March 25, 2019, by which date we must evidence compliance for at least ten consecutive business days unless Nasdaq exercises its discretion to extend this 10-business day period pursuant to Nasdaq Listing Rule 5810(c)(3)(F). If compliance cannot be demonstrated by March 25, 2019 Nasdaq will provide written notification that our common stock will be delisted. In the event of such a notification, we may appeal Nasdaq's determination, but there can be no assurance Nasdaq would grant any such request for continued listing.

- If we are successful in maintaining a higher stock price, it may improve the perception of our common stock as an investment security and may generate greater interest among a broader range of institutional and other professional investors and institutions in us, as we have been advised that the current market price of our common stock may affect its acceptability to certain members of the investing public. Many institutional

investors have policies prohibiting them from holding lower-priced stocks in their portfolios, which reduces the number of potential purchasers of our Common Stock. Investment funds may also be reluctant to invest in lower-priced stocks. Investors may also be dissuaded from purchasing lower-priced stocks because the brokerage commissions, as a percentage of the total transaction, tend to be higher for such stocks. Moreover, the analysts at many brokerage firms do not monitor the trading activity or otherwise provide coverage of lower-priced stocks. Giving the Board of Directors the ability to effect a reverse stock split, and thereby increase the price of our Common Stock, would give the Board the ability to address these issues if it is deemed necessary.

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- The Board of believes that the increased market price of the common stock which may potentially be the result of implementing the reverse stock split could improve the marketability of our common stock, which could allow us to raise additional capital and in turn permit us to satisfy the minimum stockholders' equity requirement imposed by the Nasdaq Marketplace Rules.
- The reverse stock split could decrease price volatility for our common stock, as small price movements currently may cause relatively large percentage changes in our stock price.
The reverse stock split may help increase analyst and broker interest in our stock as their policies can discourage them from following or recommending companies with lower stock prices. Because of the trading
- volatility often associated with lower-priced stocks, many brokerage houses and institutional investors have adopted internal policies and practices that either prohibit or discourage them from investing in such stocks or recommending them to their customers.
A higher market price per share for our common stock may help us attract and retain employees because
- some potential employees are less likely to work for a company with a low stock price, especially one below \$1.00 per share, regardless of our market capitalization.
The availability of additional shares of common stock would provide us with the flexibility to consider and
- respond to future business opportunities and needs as they arise, including equity offerings and other issuances, mergers, business combinations or other strategic transactions, asset acquisitions, stock dividends, stock splits and other corporate purposes.

Accordingly, for these reasons, we believe that effecting the reverse stock split is in our and our stockholders' best interests.

Reducing the number of outstanding shares of our common stock through the reverse stock split is intended, absent other factors, to increase the per share market price of our common stock. A number of the anticipated benefits of the proposed reverse stock split discussed above are contingent upon the split resulting in an increase in the per share market price of our common stock. However, other factors, such as our financial results, market conditions and the market perception of our business may adversely affect the market price of our common stock. As a result, there can be no assurance that the reverse stock split, if completed, would result in the intended benefits described above, that the market price of our common stock will increase following the reverse stock split or that the market price of our common stock will not decrease in the future. Additionally, we cannot assure you that the market price per share of our common stock after a reverse stock split will increase in proportion to the reduction in the number of shares of our common stock outstanding before the reverse stock split. Accordingly, the total market capitalization of our common stock after the reverse stock split may be lower than the total market capitalization before the reverse stock split.

Certain Risks Associated with the Reverse Stock Split

The reverse stock split may not increase the price of the common stock.

Although the Board expects that a reverse stock split will result in an increase in the price of our common stock, the effect of a reverse stock split cannot be predicted with certainty. Other factors, such as our financial results, market conditions and the market perception of our business, may adversely affect the stock price. As a result, there can be no assurance that the reverse stock split, if completed, will result in any of the intended benefits described above, that the stock price will increase as a result of or following the reverse stock split (or will increase in the same proportion as the final reverse stock split ratio) or that the stock price will not decrease in the future.

Moreover, a decline in the market price of the common stock after the reverse stock split may result in a greater percentage decline than would occur in the absence of the reverse stock split. The market price of the common stock is based on our performance and other factors, which are unrelated to the number of shares of common stock outstanding.

If the reverse stock split is implemented, the resulting per-share price may not attract institutional investors, investment funds or brokers and may not satisfy the investing guidelines of these investors or brokers, and consequently, the trading liquidity of our common stock may not improve.

While we believe that a higher share price may help generate investor and broker interest in the common stock, the reverse stock split may not result in a share price that will attract institutional investors or investment

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funds or satisfy the investing guidelines of institutional investors, investment funds or brokers. For example, some investors, analysts and other stock market participants have a negative perception of reverse stock splits due to: (1) the fact that the stock price of some companies that have effected reverse stock splits has subsequently declined in share price and corresponding market capitalization, (2) the potential that the reduction in shares outstanding could have adversely impact the liquidity of our common stock; and (3) the costs associated with implementing a reverse stock split.

The reverse stock split may leave certain stockholders with odd lots.

The reverse stock split may result in some stockholders owning odd lots of fewer than 100 shares of the common stock. Odd lot shares may be more difficult to sell, and brokerage commissions and other costs of transactions in odd lots are generally somewhat higher than the costs of transactions in round lots of even multiples of 100 shares.

Board Discretion to Implement the Reverse Stock Split

The Board believes that stockholder approval of a range of reverse stock split ratios (rather than a single exchange ratio) is in the best interests of our stockholders because it provides the Board with the flexibility to achieve the desired results of the reverse stock split and because it is not possible to predict market conditions at the time the reverse stock split would be implemented. If stockholders approve this proposal, the Board would have the authority, but not the obligation, in its sole discretion and without any further action on the part of the stockholders, to carry out a reverse stock split only upon the Board's determination that a reverse stock split would be in the best interests of our stockholders at that time. The reverse stock split, if implemented, would be effected at a time that the Board determines to be most advantageous to us and to our stockholders. The Board would then set the ratio for the reverse stock split within the range approved by stockholders and in an amount it determines is advisable and in the best interests of the stockholders considering relevant market conditions at the time the reverse stock split is to be implemented. In determining the ratio, following receipt of stockholder approval, the Board may consider, among other things:

- the historical prices and trading volume of our common stock;
- the then-prevailing trading price and trading volume of our common stock and the anticipated impact of the reverse stock split on the trading market for our common stock;
- the aggregate market value of our common stock held by non-affiliates;
- the outlook for the trading price of our common stock;
- threshold prices of brokerage houses or institutional investors that could impact their ability to invest or recommend investments in our common stock;
- our stockholders' equity at such time; and
- prevailing general market and economic conditions.

Although approval of this proposal would provide the Board with the authority to carry out a reverse stock split, the Board is not obligated to do so. If the Board determines to effect the reverse stock split, it intends to select a reverse stock split ratio that it believes would be most likely to achieve the anticipated benefits of the reverse stock split described above. Notwithstanding approval of the reverse stock split by our stockholders, the Board may, in its sole discretion, abandon the proposal and determine, prior to the effectiveness of any filing with the Secretary of State of the State of Delaware, not to effect the reverse stock split. If the Board fails to implement the reverse stock split on or prior to the first anniversary date of the Special Meeting, stockholder approval again would be required prior to implementing any reverse stock split.

Our directors and executive officers have no substantial interests, directly or indirectly, in the matters set forth in this proposed amendment, except to the extent of their ownership in shares of our common stock and securities convertible or exercisable for common stock.

Procedures for Effecting the Reverse Stock Split and Filing Amended and Restated Certificate of Incorporation to Effect the Reverse Stock Split

If our stockholders approve the reverse stock split, the Board will have discretion as to whether or not to effect the reverse stock split at any time prior to December 20, 2019, the first anniversary date of the Special

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Meeting. If implemented by the Board, the reverse stock split would become effective upon the filing of the amendment to our Third Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware. The actual timing of any such filing will be made by the Board at such time as the Board believes to be most advantageous to us and our stockholders.

Principal Effects of the Reverse Stock Split

Effect on Existing Common Stock

If the reverse stock split is implemented, the number of shares of common stock issued and outstanding will be reduced from 30,171,697 shares to between approximately 1,005,723 shares and 15,085,848 shares, depending on which exchange ratio is ultimately effected and when the reverse stock split is effected. As described below under

Mechanics of the Reverse Stock Split-Fractional Shares, cash will be paid in lieu of the issuance of fractional shares. Subject to the treatment of fractional shares, (1) the change in the number of shares of common stock outstanding that will result from the reverse stock split will not affect any stockholder's percentage ownership in the Company, and (2) the relative voting and other rights that accompany the shares of common stock will not be affected by the reverse stock split.

Although the reverse stock split will not have any dilutive effect on our stockholders (other than de minimis adjustments that may result from the treatment of fractional shares), if the Reverse Split Proposal is approved by the Company's stockholders and a reverse stock split is effectuated, a reverse stock split would reduce, on a proportionate basis for each stockholder, the aggregate number of shares of common stock outstanding without reducing the total number of shares of common stock authorized for issuance, whether or not such number remains at 150,000,000 or is increased to 250,000,000 by Proposal One above. As a result, additional authorized shares of common stock will be available for issuance at such times and for such purposes as the Board may deem advisable without further action by our stockholders, except as required by applicable laws and regulations. Any such future issuance of common stock could, depending on the circumstances, be used to deter a potential takeover or have a further dilutive effect on the earnings per share, voting power and other interests of existing stockholders.

At the present time, the Company does not have any plans, proposals or arrangements, written or otherwise, to issue any of the authorized but unissued shares of common stock that would become available as a result of the effectiveness of the amendment to our Third Amended and Restated Certificate of Incorporation to effect the reverse stock split of our outstanding shares of common stock. However, it is highly likely that we will issue additional shares in the future. Please see Potential Anti-Takeover Effects below for more information.

After the reverse stock split, we will continue to be subject to the periodic reporting and other requirements of the Securities Exchange Act of 1934, as amended (the Exchange Act). Assuming we are otherwise able to maintain our listing on the Nasdaq Capital Market, our common stock will continue to be listed on the Nasdaq Capital Market under the symbol PRPO, although the exchange will add the letter D to the end of the trading symbol for a period of 20 trading days after the effective time to indicate that a reverse stock split has occurred. Following the reverse stock split, our common stock will have a new CUSIP number.

Upon the filing of the certificate of amendment, and without any further action on the part of the Company or our stockholder, the issued shares of Common Stock held by stockholder of record as of the effective date of the reverse stock split would be converted into a lesser number of shares of Common Stock calculated in accordance with the reverse stock split ratio of not less than one-for-two (1:2) or not more than one-for-fifteen (1:15), as selected by our Board and set forth in the certificate of amendment.

For example, if a shareholder presently holds 100 shares of our Common Stock, he or she would hold 50 shares of Common Stock following a one-for-two (1:2) reverse stock split, or 3 shares of Common Stock following a one-for-thirty (1:30) reverse stock split, in each with adjustments for fractional shares as set out under *Fractional Shares* below. Beginning on the effective date of the split, each certificate representing pre-split shares would be deemed for all corporate purposes to evidence ownership of post-split shares. As soon as practicable after the effective date of the reverse stock split, stockholders would be notified that the reverse stock split had been effected.

Effect on Existing Preferred Stock

The total authorized shares of Preferred Stock is 15,000,000. As of November 7, 2018, 47 shares of Series B Preferred Stock were outstanding. Each share of Series B Preferred Stock is currently convertible into 3,333.33

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shares of common stock and we have reserved 156,667 shares of common stock for issuance upon the conversion of our outstanding shares of Series B Preferred Stock. Pursuant to the terms of the Certificate of Designation of Series B Convertible Preferred Stock, if we combine our outstanding shares of common stock into a smaller number of shares, as contemplated by the reverse stock split, the conversion rate of the Series B Preferred Stock will be proportionately adjusted. Accordingly, upon effectiveness of the reverse stock split, the number of shares of common stock issuable upon conversion of the Series B Preferred Stock will be decreased in accordance with the exchange ratio selected by the Board and we will proportionately decrease the number of shares of common stock reserved for issuance upon conversion of the Series B Preferred Stock. However, the total number of authorized shares of Preferred Stock and Series B Preferred Stock and the actual number of outstanding shares of Series B Preferred Stock will remain unchanged upon the effectiveness of the reverse stock split. Other than as described in this paragraph, all of the rights, preferences and other privileges of our Preferred Stock will remain unchanged following the reverse stock split.

Effect on Equity Compensation Plans and Outstanding Common Stock Warrants

The proposed reverse stock split will reduce the number of shares of common stock available for issuance under the 2017 Stock Option and Incentive Plan in proportion to the exchange ratio selected by the Board if the reverse stock split is effected.

Under the terms of our outstanding equity compensation awards and common stock warrants, a reverse stock split would cause a reduction in the number of shares of common stock issuable upon exercise or vesting of such equity awards and common stock warrants in proportion to the exchange ratio selected by the Board, and would cause a proportionate increase in the exercise price of such equity awards and common stock warrants such that the aggregate exercise price payable by the optionee, holder of stock appreciation rights or warrant holder, as applicable, would remain the same. In each case, any fractional share subject to an option or stock appreciation rights resulting from an adjustment pursuant to the foregoing will generally be rounded down to the nearest whole number, and the exercise price per share will generally be rounded up to the nearest whole cent. Fractional shares subject to warrants resulting from an adjustment pursuant to the foregoing will generally be rounded down to the nearest whole number, and the exercise price per share will be rounded to the nearest whole cent.

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The following table contains approximate information relating to our common stock, our Preferred Stock, our options, and our convertible notes under each of the possible split ratios (without giving effect to the treatment of fractional shares discussed below in *Mechanics of the Reverse Stock Split-Fractional Shares*), based on share information as of November 7, 2018.

Number of authorized shares of Common Stock	Date: November 7, 2018	One-for-Two Split (1:2)	One-for-Fifteen Split (1:15)	One-for-Thirty Split (1:30)
Number of outstanding shares of Common Stock	30,171,697	15,085,848	2,011,446	1,005,723
Number of authorized shares of Preferred Stock	15,000,000	15,000,000	15,000,000	15,000,000
Number of designated shares of Series B Preferred Stock	6,900	6,900	6,900	6,900
Number of outstanding shares of Series B Preferred Stock	47	47	47	47
Number of shares of common stock reserved for issuance upon conversion of outstanding Series B Preferred Stock	156,667	78,333	10,444	5,222
Number of shares of common stock reserved for issuance upon exercise of outstanding stock options, stock appreciation rights, common stock warrants and convertible notes	22,238,985	11,119,492	1,482,599	741,299
Number of shares of common stock reserved for issuance in connection with future awards under our equity compensation plans	2,665,289	1,332,644	177,685	88,842
Number of authorized and unreserved shares of preferred stock not outstanding	14,999,953	14,999,953	14,999,953	14,999,953
Number of authorized and unreserved shares of	94,767,362	122,383,681	146,317,824	148,158,912

common stock not
outstanding

Potential Anti-Takeover Effects

Since the reverse stock split will result in increased available shares of common stock, it may be construed as having an anti-takeover effect. Although neither the Board nor management views this proposal as an anti-takeover measure, and the Board has no current plans to utilize the additional authorized shares to entrench present management, we could use the increased available shares to resist or frustrate a third-party transaction providing an above-market premium that is favored by a majority of the independent stockholders. For example, we could privately place shares with purchasers who might side with the Board in opposing a hostile takeover bid or issue shares to a holder which would, thereafter, have sufficient voting power to assure that any proposal to amend or repeal our Amended and Restated Bylaws or certain provisions of the Third Amended and Restated Certificate of Incorporation would not receive the requisite vote.

There are no provisions in our Third Amended and Restated Certificate of Incorporation or Amended and Restated Bylaws or other material agreements to which we are a party that would, in our management's judgment, have an anti-takeover effect; however, our Amended and Restated Bylaws contain certain advance notification requirements for nominations of persons for election to the Board and proposals by stockholders at annual and special meetings of stockholders.

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The Board is not aware of any pending takeover or other transactions that would result in a change in control of the Company, and the proposal was not adopted to thwart any such efforts.

Accounting Matters

If the reverse stock split is implemented, the par value per share of our common stock will remain unchanged at \$0.01 per share after the reverse stock split. As a result of the reverse stock split, at the effective time of the reverse stock split, the stated capital on our balance sheet attributable to the common stock, which consists of the par value per share of the common stock multiplied by the aggregate number of shares of the common stock issued and outstanding, will be reduced in proportion to the reverse stock split ratio. Correspondingly, our additional paid-in capital account, which consists of the difference between our stated capital and the aggregate amount paid to us upon issuance of all currently outstanding shares of common stock, will be credited with the amount by which the stated capital is reduced. Our stockholders' equity, in the aggregate, will remain unchanged. In addition, the per share net income or loss of our common stock, for all periods, will be restated because there will be fewer outstanding shares of common stock.

No Going Private Transaction

Notwithstanding the decrease in the number of outstanding shares following the reverse stock split, this transaction is not intended to be the first step in a going private transaction, within the meaning of Rule 13e-3 of the Exchange Act, and will not produce, either directly or indirectly, any of the effects described in paragraph (a)(3)(ii) of Rule 13e-3 of the Exchange Act.

Effective Date

If the reverse stock split is implemented, we will file a Certificate of Amendment of our Third Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware. The reverse stock split will become effective upon the filing of the Certificate of Amendment. No further action on the part of stockholders would be required to either effect or abandon the reverse stock split. If the Board does not implement the reverse stock split on or prior to December 20, 2019, the one-year anniversary of the date of the Special Meeting, the authority granted in this proposal to implement the reverse stock split will terminate. The Board reserves its right to elect not to proceed with the reverse stock split, and to abandon the reverse stock split in its entirety, if it determines, in its sole discretion, that this proposal is no longer in the best interests of our stockholders.

Mechanics of the Reverse Stock Split

Exchange of Stock Certificates

If the reverse stock split is implemented, each certificate representing pre-reverse split shares will, until surrendered and exchanged as described below, for all corporate purposes, be deemed to represent, respectively, only the number of post-reverse stock split shares.

Shortly after the reverse stock split becomes effective, stockholders will be notified and offered the opportunity at their own expense to surrender their current certificates to our transfer agent in accordance with the procedures to be set forth in a letter of transmittal to be sent by us or our transfer agent in exchange for the issuance of new certificates reflecting the reverse stock split. In connection with the reverse stock split, the CUSIP number for the common stock will change from its current CUSIP number. This new CUSIP number will appear on any new stock certificates issued representing post-reverse stock split shares.

STOCKHOLDERS SHOULD NOT DESTROY ANY STOCK CERTIFICATE(S) AND SHOULD NOT SUBMIT ANY STOCK CERTIFICATE(S) UNTIL REQUESTED TO DO SO.

Effect on Registered Book-entry Holders of Common Stock

Holders of common stock may hold some or all of their common stock electronically in book-entry form (street name). These stockholders do not have stock certificates evidencing their ownership. They are, however, provided with a statement reflecting the number of shares of common stock registered in their accounts. If the reverse stock split is implemented and you hold registered common stock in book-entry form, you do not need to take any action to receive your post-reverse stock split shares or cash payment in lieu of any fractional

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share interest, if applicable. If you are entitled to post-reverse stock split shares, a transaction statement will automatically be sent to your address of record indicating the number of shares you hold. If you are entitled to a payment in lieu of any fractional share interest, a check will be mailed to you at your registered address as soon as practicable after our transfer agent completes the aggregation and sale described below in Fractional Shares.

Effect on Registered Certificated Common Stockholders

Some of our stockholders hold their shares of common stock in certificate form or a combination of certificate and book-entry form. If the reverse stock split is implemented and any of your shares are held in certificate form, you will receive a transmittal letter from us or our transfer agent as soon as practicable after the effective date of the reverse stock split. The letter of transmittal will contain instructions on how to surrender your certificate(s) representing your pre-reverse common stock split shares to the transfer agent. Upon receipt of your pre-reverse stock split certificate(s), you will be issued the appropriate number of shares electronically in book-entry form, and if you are entitled to a payment in lieu of any fractional share interest, payment will be made as described below under Fractional Shares. No new shares in book-entry form will be issued and no payment in lieu of any fractional share interest will be made to you until you surrender your outstanding pre-reverse stock split certificate(s), together with the properly completed and executed letter of transmittal, to our transfer agent. At any time after receipt of your book-entry statement, you may request a stock certificate representing your ownership interest.

Fractional Shares

If the reverse stock split is implemented, no fractional shares will be issued in connection with the reverse stock split. Instead, stockholders who would otherwise hold fractional shares because the number of shares of common stock they hold before the reverse stock split is not evenly divisible by the split ratio ultimately selected by the Board will receive cash (without interest) in lieu of such fractional shares in an amount equal to the product obtained by multiplying (i) the closing price of our shares of common stock on the day immediately preceding the effective date of the reverse split, as reported on the Nasdaq Capital Market (or, if the closing price of our common stock is not then reported on the Nasdaq Capital Market, then the fair market value of our shares of common stock as determined by the Board) by (ii) the number of shares of our common stock held by such stockholder that would otherwise have been exchanged for such fractional share interest. Stockholders who own their shares in certificated form will receive such cash payment in lieu of fractional shares following the surrender of their pre-reverse split certificate(s) for post-reverse stock split shares. The ownership of a fractional share interest will not give the holder any voting, dividend or other rights, except to receive the above-described cash payment.

Dissenters or Appraisal Rights

Under the General Corporation Law of the State of Delaware, our stockholders are not entitled to any dissenters or appraisal rights with respect to the reverse stock split, and we will not independently provide stockholders with any such right.

U.S. Federal Income Tax Consequences of the Reverse Stock Split

The following summary describes certain material U.S. federal income tax consequences of the reverse stock split to holders of our common stock.

Unless otherwise specifically indicated herein, this summary addresses the U.S. federal income tax consequences only to a beneficial owner of our common stock that is: (i) a citizen or individual resident of the United States, (ii) a corporation (including an entity treated as a corporation for U.S. federal income tax purposes) created or organized in or under the laws of the U.S. or of a political subdivision thereof (including the District of Columbia), (iii) an estate

whose income is subject to U.S. federal income taxation, regardless of its source, or (iv) any trust if: (a) a U.S. court is able to exercise primary supervision over the administration of the trust and one or more U.S. persons have the authority to control all substantial decisions of the trust, or (b) it has a valid election in place to be treated as a U.S. person (each, a U.S. Holder). This summary does not address any state, local, foreign, or other tax consequences, nor does it address all of the tax consequences that may be relevant to a particular stockholder in light of their circumstances, including tax consequences arising to stockholders subject to special rules, such as persons who acquired shares of our common stock pursuant to

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employee stock options or otherwise as compensation, certain financial institutions, tax-exempt entities, regulated investment companies, insurance companies, partnerships or other pass-through entities, U.S. expatriates, persons subject to the alternative minimum tax, traders in securities that elect to use a mark-to-market method of accounting, individual retirement accounts or tax-deferred accounts, dealers in securities, commodities or currencies, persons holding shares in connection with a hedging transaction, straddle, conversion transaction or a synthetic security or other integrated transaction, stockholders whose functional currency is not the U.S. dollar, and persons that do not hold our common stock as capital assets (generally, property held for investment).

This summary is based on current law, including the Internal Revenue Code of 1986, as amended (the Code), administrative pronouncements, judicial decisions, existing and proposed Treasury Regulations, and interpretations of the foregoing, all as in effect as of the date hereof. All of the foregoing authorities are subject to change (possibly with retroactive effect) and any such change may result in U.S. federal income tax consequences to a stockholder that are materially different from those described below. In addition, we have not sought, and will not seek, an opinion of counsel or a ruling from the Internal Revenue Service (the IRS) regarding the U.S. federal income tax consequences of the reverse stock split, and there can be no assurance the IRS will not challenge the statements and conclusions set forth in this discussion or that a court would not sustain any such challenge.

Tax Consequences of the Reverse Stock Split Generally

The reverse stock split is intended to constitute a reorganization within the meaning of Section 368 of the Code. Accordingly, a U.S. Holder generally will not recognize gain or loss for U.S. federal income tax purposes on the reverse stock split (except with respect to any cash received in lieu of a fractional share as described below). The aggregate tax basis of the post-reverse split shares received will be the same as the aggregate tax basis of the pre-reverse split shares exchanged therefore (excluding any portion of the holder's basis allocated to fractional share interests), and the holding period(s) of the post-reverse split shares received will include the U.S. Holder's holding period(s) for the pre-reverse split shares exchanged. The Company will not recognize any gain or loss as a result of the reverse stock split.

Cash Received Instead of a Fractional Share

A U.S. Holder who receives cash for fractional shares should generally recognize gain or loss, as the case may be, for U.S. federal income tax purposes measured by the difference between the amount of cash received and the portion of the tax basis of the pre-reverse split shares allocated to the fractional share interest. Such gain or loss will be capital gain or loss and will generally be long-term capital gain or loss to the extent such U.S. Holder's holding period exceeds 12 months. The deductibility of capital losses may be subject to certain limitations.

Backup Withholding

A non-corporate U.S. Holder may be subject to backup withholding at a 28% rate on cash payments received pursuant to the reverse stock split unless such U.S. Holder provides a correct taxpayer identification number to its broker or to the Company and otherwise complies with applicable requirements of the backup withholding rules. Backup withholding is not an additional tax. Rather, any amount withheld under these rules will be creditable against the U.S. Holder's U.S. federal income tax liability, provided the required information is furnished to the IRS.

IRS Circular 230 Disclosure: To ensure compliance with requirements imposed by the U.S. Internal Revenue Service, we inform you that any tax advice contained in this proxy statement was not intended or written to be used, and cannot be used, by any taxpayer for the purpose of avoiding tax-related penalties under the Code. The tax advice contained in this proxy statement was written to support the promotion or marketing of the transactions and matters addressed by the proxy statement. Each taxpayer should seek advice based on the taxpayer's particular circumstances.

from an independent tax advisor.

PLEASE CONSULT YOUR OWN TAX ADVISOR REGARDING THE FEDERAL, STATE, LOCAL, AND FOREIGN INCOME AND OTHER TAX CONSEQUENCES TO YOU OF THE REVERSE STOCK SPLIT IN YOUR PARTICULAR CIRCUMSTANCES.

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Vote Required

The affirmative vote of a majority of the votes cast at the Special Meeting by the holders of our common stock and B Preferred Stock, voting together as a single class is required to approve the authorization of the Board to, in its discretion, amend our Third Amended and Restated Certificate of Incorporation to effect a reverse stock split of our common stock at a ratio of between one-for-two (1:2) or not more than one-for-thirty (1:30), such ratio to be determined by the Board.

THE BOARD OF DIRECTORS RECOMMENDS THAT THE YOU VOTE FOR PROPOSAL TWO

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PROPOSAL THREE

PROPOSAL TO APPROVE THE ISSUANCE OF SECURITIES IN CONNECTION WITH A PURCHASE AGREEMENT WITH LINCOLN PARK CAPITAL FUND LLC

General

On September 7, 2018, we entered into a purchase agreement (the *Purchase Agreement*) and a registration rights agreement (the *Registration Rights Agreement*) with Lincoln Park Capital Fund, LLC (*LPC*), pursuant to which we have the right to sell to LPC and LPC has committed to purchase from us, from time to time for a period of 24 months, up to \$10,000,000 of our common stock, subject to certain limitations and conditions set forth in the Purchase Agreement which is attached hereto as Annex C. As consideration for its commitment to purchase shares of our common stock under the Purchase Agreement, we agreed to issue 600,000 commitment shares to LPC as a commitment fee (the *Commitment Shares*).

We do not have the right to commence any sales to LPC under the Purchase Agreement until each of the conditions set forth in the Purchase Agreement, all of which are outside of LPC's control, have been satisfied, including the Registration Statement being declared effective by the SEC. Thereafter, under the Purchase Agreement, on any business day selected by us on which the closing price of our common stock is not less than \$0.10 per share (subject to adjustment for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction as provided in the Purchase Agreement), we may direct LPC to purchase up to 450,000 shares of our common stock on such business day (each, a *Regular Purchase*), provided, however, that (i) the Regular Purchase may be increased to up to 500,000 shares, provided that the closing sale price of our common stock is not below \$0.50 on the purchase date (subject to adjustment for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction as provided in the Purchase Agreement) and (ii) the Regular Purchase may be increased to up to 550,000 shares, provided that the closing sale price of our common stock is not below \$0.75 on the purchase date (subject to adjustment for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction as provided in the Purchase Agreement). In each case, LPC's maximum commitment in any single Regular Purchase may not exceed \$1,000,000. LPC has no right to require the Company to sell any shares of common stock to LPC, but LPC is obligated to make purchases as we direct, subject to certain conditions. The purchase price per share for each such Regular Purchase will be based off of prevailing market prices of our common stock immediately preceding the time of sale without any fixed discount.

In addition to Regular Purchases described above, we may also direct LPC, on any business day on which we have properly submitted a Regular Purchase notice directing LPC to purchase the maximum number of shares of our common stock that we are then permitted to include in a single Regular Purchase notice and the closing sale price of our common stock on such business day is not below \$0.25 per share (subject to adjustment for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction as provided in the Purchase Agreement), to purchase an additional amount of our common stock, which we refer to as an Accelerated Purchase, not to exceed the lesser of: (i) 25% of the aggregate shares of our common stock traded during all or, if certain trading volume or market price thresholds specified in the Purchase Agreement are crossed on the applicable Accelerated Purchase date, which is defined as the next business day following the purchase date for the corresponding Regular Purchase, the portion of the normal trading hours on the applicable Accelerated Purchase date prior to such time that any one of such thresholds is crossed; and (ii) 3 times the number of purchase shares purchased pursuant to the corresponding Regular Purchase.

Under certain circumstances and in accordance with the Purchase Agreement, the Company may direct LPC to purchase shares in multiple Accelerated Purchases on the same trading day, provided that (i) the closing price of our common stock on the business day immediately preceding such business day is not less than \$0.25 per share (subject

to adjustment for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction as provided in the Purchase Agreement) and (ii) all prior Accelerated Purchases (including those that have occurred earlier on the same day) have been completed and all of the shares to be purchased thereunder (and under the corresponding Regular Purchase) have been properly delivered to LPC in accordance with the Purchase Agreement. The price per share in each Accelerated Purchase will be based on the market prices of the Company's common stock at the time of such Accelerated Purchase calculated as set forth in the Purchase Agreement.

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Other than as described above, there are no trading volume requirements or restrictions under the Purchase Agreement, and we will control the timing and amount of any sales of our common stock to LPC.

There are no restrictions on future financings, rights of first refusal, participation rights, penalties or liquidated damages in the Purchase Agreement or Registration Rights Agreement other than a prohibition on entering into a Variable Rate Transaction, as defined in the Purchase Agreement.

Under applicable rules of The Nasdaq Capital Market, in no event may we issue or sell to LPC under the Purchase Agreement more than 19.99% of the shares of our common stock outstanding immediately prior to the execution of the Purchase Agreement (which was 4,628,859 shares based on 23,155,872 shares outstanding immediately prior to the execution of the Purchase Agreement) (the Exchange Cap), unless (i) we obtain stockholder approval to issue shares of common stock in excess of the Exchange Cap or (ii) the average price of all applicable sales of our common stock to LPC under the Purchase Agreement equal or exceed \$0.4728 (which represents the closing consolidated bid price of our common stock on September 7, 2018, plus an incremental amount to account for our issuance of the Commitment Shares to LPC), such that issuances and sales of our common stock to LPC under the Purchase Agreement would be exempt from the Exchange Cap limitation under applicable NASDAQ rules.

The Purchase Agreement also prohibits us from directing LPC to purchase any shares of common stock if those shares, when aggregated with all other shares of our common stock then beneficially owned by LPC and its affiliates, would result in LPC and its affiliates having beneficial ownership, at any single point in time, of more than 4.99% of the then total outstanding shares of our common stock, as calculated pursuant to Section 13(d) of the Securities Exchange Act of 1934, as amended, and Rule 13d-3 thereunder.

The net proceeds under the Purchase Agreement to us will depend on the frequency and prices at which we sell shares of common stock to LPC. We expect that any proceeds received by us from such sales to LPC will be used for working capital and general corporate purposes.

Why the Company Needs Stockholder Approval

As a result of our listing on The Nasdaq Capital Market, issuances of our common stock are subject to the Nasdaq Marketplace Rules, including Rule 5635(d), which requires us to obtain stockholder approval prior to the issuance of securities in connection with a transaction, other than a public offering, involving the sale, issuance or potential issuance by us of shares of our common stock (or securities convertible into or exercisable for shares of our common stock) at a price less than the greater of book or market value if such issuance would represent 20% or more of our common stock or voting power of the Corporation outstanding before the issuance (the Nasdaq 20% Rule). In order to comply with the Nasdaq 20% Rule and to satisfy conditions under the Purchase Agreement, we are seeking stockholder approval to permit issuance of more than 20% of our common stock.

Because the total number of shares issued by us to date in connection with the Purchase Agreement has not exceeded 19.99%, we were not required to seek stockholder approval for those sales. However, future use of the Purchase Agreement may result in the issuance by us of more than 19.99% of our outstanding common stock, which requires stockholder approval under the Nasdaq 20% Rule. Accordingly, we are seeking approval from our stockholders of the proposed issuances of shares under the Purchase Agreement.

Effect of Failure to Obtain Stockholder Approval

If the stockholders do not approve Proposal Three, the Company will be unable to issue more than 19.99% of our outstanding common stock to LPC.

Effect of Approval

If the stockholders approve Proposal Three, 33,848,927 shares of common stock would be available for issuance under the Purchase Agreement and we want to be able to utilize the Purchase Agreement to raise capital quickly. The issuance of such shares could result in significant dilution to our stockholders, and could substantially reduce our stockholders' percentage interest in the voting power of the Company.

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Recommendation

The Board recommends a vote **FOR** approval of the issuance of shares of common stock pursuant to the Purchase Agreement and in accordance with the stockholder approval requirements of Nasdaq Listing Rule 5635(d).

Vote Required

A quorum being present, the approval of Proposal Three requires the affirmative vote of a majority of the shares of our Common Stock present in person or by proxy at the Special Meeting and entitled to vote thereon as of the Record Date. Abstentions will have the effect of a vote **AGAINST** the proposal. Broker non-votes will have no effect on the proposal.

THE BOARD RECOMMENDS A VOTE **FOR PROPOSAL THREE.**

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PROPOSAL FOUR

STOCKHOLDERS APPROVAL IN CONNECTION WITH CONVERTIBLE DEBT TRANSACTION

As disclosed in the Company's Form 8-K filed on April 23, 2018 and amended on April 26, 2018, the Company entered into a securities purchase agreement (the "Agreement") with certain investors (the "Investors"), pursuant to which the Company may issue up to approximately \$3,296,703.30 in Senior Secured Convertible Promissory Notes with 100% common stock warrant coverage (the "Transaction"). The Transaction consists of unregistered Senior Secured Convertible Notes (the "Notes"), bearing interest at a rate of 8.00% annually and an original issue discount of 9%. As part of the Transaction, the Investors also received warrants to purchase Common Stock of the Company (the

Warrants) that provided the Investors with the right to purchase 100% coverage shares of the Company's common stock exercisable at a 150% premium to the conversion price on the initial closing date. 50% of such Warrants have a 5-year term and 50% have a one-year term.

The conversion terms of the Notes as were that any time after the original issue date of the Notes until the Notes are no longer outstanding, the Notes are convertible at a price of \$0.50 per share, provided that if the Notes are not repaid within 180 days from the original issue date of the Notes, the conversion price will be adjusted to 80% of the lowest volume weighted average price during the prior 10 days, subject to a minimum conversion price of \$0.30 per share. The Notes are repayable by the Company on the earlier of (i) the one-year anniversary after the initial closing date or (ii) upon the closing of a qualified offering, namely the Company raising gross proceeds of at least \$7,000,000 (the Maturity Date). The initial closing provided the Company with \$1,660,000 of gross proceeds for the issuance of Notes with an aggregate principal of \$1,824,176. On July 6, 2018, the stockholders of the Company approved for purposes of complying with applicable Nasdaq Listing Rules, the potential issuance of more than 20% of the Company's common stock in connection with the Transaction. Following such approval, additional closings provided the Company with \$1,340,000 for Notes with an aggregate principal of \$1,374,426.

In order to continue the growth of the Company's sales force and business development team and to enable the progression of the Company's product development and working capital, and to enable the Investors to convert the Notes and to keep capital in the Company by not repaying the Notes, the Board, on November 26, 2018, approved the amendment and restatement of the Agreement to allow for the issuance of up to \$2,000,000 of additional Notes together with applicable Warrants. The Notes and Warrants shall have substantially the same terms and conditions of the exiting transaction documents, subject to certain amendments to their terms, which the Board deemed desirable and in the best interest of the Company and its stockholders. The amendments include, among other things, the amendment of the definition of "Floor Price" in the Notes so that the conversion price shall be adjusted to 80% of the lowest volume weighted average price during the prior 10 days, subject to a minimum conversion price of \$0.15 per share and all warrants to be granted in connection with the Notes to have a 5-year term only. The additional notes and warrants are offered to the Investors that previously participated in the Convertible Debt Transaction and additional investors as approved by the Board.

Why We Are Seeking Your Approval

We are seeking your approval of the Convertible Debt Transaction in order to approve the potential issuance of additional shares of the Company due to the adjustment in the minimum conversion price the lower floor price. As a result of the adjustment, additional common stock of the Company may be issued upon conversion and the issuance of such additional stock (in addition to the prior approval) will represent in excess of 20% of the Company's common stock. The adjustment in the minimum conversion price will also enable the Investors to convert the debt instead of the Company repaying its debt under the Notes. The potential amendment of the Agreement to allow for new investment will provide the Company with additional capital, which combined with the conversion of the Company's debt under the Notes, will enable the Company to continue the growth of the sales force and expand its business

development team and to enable the progression of the Company's product development and working capital.

Required Vote

A quorum being present, the approval of the issuance of securities in connection with the Transaction requires the affirmative vote of a majority of the shares of our Common Stock present in person or by proxy at the Meeting and entitled to vote thereon as of the Record Date. Abstentions will have the effect of a vote AGAINST the proposal. Broker non-votes will have no effect on the proposal.

Recommendation of the Board of Directors

THE BOARD RECOMMENDS A VOTE FOR PROPOSAL FOUR.

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PROPOSAL FIVE

STOCKHOLDERS APPROVAL PRIOR TO THE ISSUANCE OF SECURITIES TO CERTAIN CREDITORS OF AND/OR HOLDERS OF CLAIMS AGAINST THE COMPANY IN EXCHANGE FOR CANCELLATION OF INDEBTEDNESS

The Company is seeking approval by its stockholders of the potential issuance of shares of its Common Stock in excess of 20% of the number of shares of Common Stock outstanding to certain of the Company's creditors and/or holders of claims against the Company in exchange for cancellation of indebtedness of the Company to such creditors and/or claim holders (the "Settlement Issuances").

On March 12, 2018, the Company entered into a settlement agreement with Crede Capital Group LLC pursuant to which Precipio agreed to pay to Crede Capital Group LLC a total sum of \$1.925 million over a period of 16 months payable in a combination of cash and/or stock in accordance with terms contained in the Agreement.

Why We Are Seeking Your Approval

NASDAQ Listing Rule 5635(d) requires stockholder approval prior to the issuance of securities in connection with a transaction (or a series of related transactions) other than a public offering involving the sale, issuance or potential issuance of common stock (or securities convertible into or exercisable for common stock) at a price less than the greater of book or market value which equals 20% or more of the common stock or 20% or more of the voting power outstanding before the issuance (the "20% Threshold").

We are seeking your approval of the Settlement Issuances in order to enable us to conserve cash and direct our resources towards growth and improve our ability to meet our debt obligations and pay our liabilities in a manner that may be less dilutive than raising capital on the open market and to ensure our compliance with NASDAQ's Listing Rules. Until we obtain stockholder approval of the Settlement Issuances, we will not be able to issue shares of Common Stock to creditors and/or claim holders in excess of the 20% Threshold, we may be unable to meet our debt obligations and pay our liabilities, and we may have to restrict or cease our operations.

Recommendation of the Board of Directors

THE BOARD RECOMMENDS A VOTE FOR PROPOSAL FIVE

Required Vote

A quorum being present, the approval of the Settlement Issuances Transaction requires the affirmative vote of a majority of the shares of our Common Stock present in person or by proxy at the Meeting and entitled to vote thereon as of the Record Date. Abstentions will have the effect of a vote AGAINST the proposal. Broker non-votes will have no effect on the proposal.

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PROPOSAL SIX

STOCKHOLDERS APPROVAL PRIOR TO THE ISSUANCE OF SECURITIES IN CONNECTION WITH CERTAIN OFFERING

As stated above, our common stock is subject to the Nasdaq Listing Rule 5635(d) (Rule 5635(d)) which requires us to obtain stockholder approval prior to the issuance of our common stock in connection with an offering involving the sale, issuance or potential issuance of, by the Company, of common stock (and/or securities convertible into or exercisable for common stock) equal to 20% or more of the common stock outstanding before the issuance. Shares of our common stock issuable upon the exercise or conversion of warrants, options, debt instruments or other equity securities issued or granted in such an offering will be considered shares issued in such a transaction in determining whether the 20% limit has been reached.

In the next several months, the Company will seek to raise additional capital to implement our business strategy and enhance our overall capitalization. Nonetheless, we have yet to determine the particular terms for such an offering. However, because we may seek additional capital that triggers the requirements of the Rule 5635(d), we are seeking stockholder approval now of a financing transaction, as described more fully in the following paragraph, so that we will be able to move quickly to take full advantage of opportunities that may develop in the equity markets.

Among the opportunities that may arise for capital raise is a private or registered direct offering of gross proceeds of up to a maximum of \$8,000,000 which at the current market price could result in the potential issuance of up to 27,000,000 shares of common stock (or other securities convertible into or exercisable for 27,000,000 shares of common stock) but which may be adjusted to reflect up to a maximum 35% effective discount to the market price of the Company's underlying common stock at the time of issuance, in each case subject to adjustments for stock splits and reverse stock splits (the Potential Offering). The Company expects to have a sufficient number of authorized shares for issuance in connection with the Potential Offering. The Potential Offering may have such other terms as the Board of Directors of the Company shall deem to be in the best interests of the Company and its stockholders, not inconsistent with the foregoing. The Company has not yet identified the investors or arrived at any specific terms or conditions for the Potential Offering and is not able to identify any potential new controlling stockholder that may result from the Potential Offering. Although there will be no initial effect on the holdings of current stockholders from prior approval of the Potential Offering, the issuance of shares of our common stock, or other securities convertible into or exercisable for shares of our common stock, in accordance with any offering, including the Potential Offering, would dilute, and thereby reduce, each existing stockholder's proportionate ownership in our common stock. Under the Company's current certificate of incorporation and bylaws, stockholders do not have preemptive rights to subscribe to additional shares that may be issued by the Company in order to maintain their proportionate ownership of the common stock.

The issuance of additional shares of common stock in any offering, including the Potential Offering, could also have an effect on stockholders' voting power. NASDAQ Listing Rule 5635(b) (Rule 5635(b)) requires us to obtain stockholder approval prior to an issuance with respect to shares of common stock, or securities convertible into common stock, which could result in a subsequent change of control of the issuer. Generally, NASDAQ interpretations provide that the acquisition of 20% of the shares of an issuer by one person may be considered a change of control of such issuer. Accordingly, in the event that the issuance of additional shares of common stock in the Potential Offering triggers the requirements of Rule 5635(b), we are seeking stockholder approval now so we are able to consummate the transaction on a timely basis.

The Board of Directors has not yet determined the terms and conditions of any offering including the Potential Offering. As a result, the level of potential dilution cannot be determined at this time. It is possible that if we conduct a stock offering, some of the shares we sell could be purchased by one or more investors who could acquire a large

block of our common stock. This could concentrate voting power in the hands of a few stockholders who could exercise greater influence on our operations or the outcome of matters put to a vote of stockholders in the future.

We cannot determine what the actual net proceeds of the Potential Offering will be until it is completed. If all or part of the Potential Offering is completed, we anticipate that the net proceeds will be used to continue funding general corporate purposes, including research and development activities, capital expenditures and working capital. We currently have no arrangements or understandings regarding any specific transaction with investors, so we cannot predict whether we will be successful should we seek to raise capital through the

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Potential Offering. In the event that we do seek to raise additional capital through the Potential Offering, we are seeking stockholder approval now so we are able to consummate the transaction on a timely basis. We do not plan to seek any additional approval of the Company's stockholders with respect to the Potential Offering.

Recommendation of the Board of Directors

THE BOARD RECOMMENDS A VOTE FOR PROPOSAL SIX

Required Vote

A quorum being present, the approval of the Settlement Issuances Transaction requires the affirmative vote of a majority of the shares of our Common Stock present in person or by proxy at the Meeting and entitled to vote thereon as of the Record Date. Abstentions will have the effect of a vote AGAINST the proposal. Broker non-votes will have no effect on the proposal.

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PROPOSAL SEVEN

ADJOURNMENT OF THE SPECIAL MEETING

We are asking you to approve the adjournment of the Special Meeting to a later date or dates, if necessary or appropriate, to solicit additional proxies if there are insufficient votes to adopt any of Proposals One through Six at the time of the Special Meeting. If the Company's stockholders approve this proposal, we can adjourn the Special Meeting and any adjourned session of the Special Meeting and use the additional time to solicit additional proxies, including soliciting proxies from the Company's stockholders that have previously returned properly signed proxies voting against any of Proposals One through Six. Among other things, approval of the proposal to adjourn the Special Meeting to a later date or dates, if necessary or appropriate, to solicit additional proxies if there are insufficient votes to adopt any of Proposals One through Six at the time of the Special Meeting could mean that, even if we received proxies representing a sufficient number of votes against the adoption of these proposals such that they would be defeated, we could adjourn the Special Meeting without a vote on the adoption of these proposals and seek to convince the holders of those shares to change their votes to votes in favor of the adoption of any of any of Proposals One through Six. Additionally, we may seek to adjourn the Special Meeting if a quorum is not present, and the chairperson of the Special Meeting may also adjourn the Special Meeting for such purpose even if the Company's stockholders have not approved the proposal to adjourn the Special Meeting.

The vote on this proposal is a vote separate and apart from the vote on Proposals One through Six. Accordingly, you may vote in favor of any of those proposals and vote not to approve this Proposal Seven and vice versa.

Required Vote

Approval of this proposal, whether or not a quorum is present, requires the affirmative vote of a majority of the voting power of the shares present in person or represented by proxy at the Special Meeting and entitled to vote. Abstentions and broker non-votes, if any, and shares not in attendance will have no effect on the approval of this proposal.

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VOTING AND PROXY PROCEDURES

Record Date; Voting Rights and Outstanding Shares

Only holders of record of our Common Stock as of the close of business on November 9, 2018 are entitled to receive notice of, and to vote at, the Special Meeting. Each holder of Common Stock shall be entitled to one vote for each share held on all matters to be voted upon at the Special Meeting. At the close of business on the Record Date, there were 30,171,697 shares of Common Stock issued and outstanding.

Holders of record who hold shares of Common Stock directly on the Record Date must return a proxy by one of the methods described on the proxy card or attend the Special Meeting in person in order to vote on the proposals. Investors who hold shares of Common Stock indirectly on the Record Date (**Beneficial Holders**) through a brokerage firm, bank or other financial institution (a **Financial Institution**) must return a voting instruction form to have their shares voted in accordance with their instructions, as Financial Institutions do not have discretionary voting authority with respect to any of the proposals described in this Proxy Statement. Financial Institutions that do not receive voting instructions from Beneficial Holders will not be able to vote those shares.

A quorum of stockholders is necessary to take action at the Special Meeting. Stockholders representing a majority of the outstanding shares of our Common Stock (present in person or represented by proxy) will constitute a quorum. We will appoint election inspectors for the meeting to determine whether or not a quorum is present and to tabulate votes cast by proxy or in person at the Special Meeting. Abstentions, withheld votes and broker non-votes (which occur when a broker, bank or other nominee holding shares for a beneficial owner does not vote on a particular matter because such broker, bank or other nominee does not have discretionary authority to vote on that matter and has not received voting instructions from the beneficial owner) are counted as present for purposes of determining the presence of a quorum for the transaction of business at the Special Meeting.

Votes Required for Each Proposal

The vote required and method of calculation for the proposals to be considered at the Special Meeting are as follows:

Proposal One— Authorized Stock Increase Proposal. Approval of this proposal requires the affirmative vote of a majority of the outstanding shares of our Common Stock present in person or by proxy at the Special Meeting and entitled to vote thereon as of the Record Date. You may vote **FOR**, **AGAINST** or **ABSTAIN** from voting on this proposal. For purposes of determining whether this proposal has passed, abstentions will have the effect of a vote **AGAINST** the proposal. Broker non-votes be counted for the purposes of the quorum but will have effect of voting negative on the proposal.

Proposal Two— Reverse Stock Split Proposal. Approval of this proposal requires the affirmative vote of a majority of the outstanding shares of our Common Stock present in person or by proxy at the Special Meeting and entitled to vote thereon as of the Record Date. You may vote **FOR**, **AGAINST** or **ABSTAIN** from voting on this proposal. For purposes of determining whether this proposal has passed, abstentions will have the effect of a vote **AGAINST** the proposal. Broker non-votes will have no effect on the proposal.

Proposal Three— Nasdaq Limit Proposal in relation to the LPC Transaction. Approval of this proposal requires the affirmative vote of a majority of the outstanding shares of our Common Stock present in person or by proxy at the Special Meeting and entitled to vote thereon as of the Record Date. You may vote **FOR**, **AGAINST** or **ABSTAIN** from voting on this proposal. For purposes of determining whether this proposal has passed, abstentions will have the effect of a vote **AGAINST** the proposal. Broker non-votes will have no effect on the proposal.

Proposal Four— Nasdaq Limit Proposal in relation to the Convertible Debt Transaction. Approval of this proposal requires the affirmative vote of a majority of the outstanding shares of our Common Stock present in person or by proxy at the Special Meeting and entitled to vote thereon as of the Record Date. You may vote FOR, AGAINST or ABSTAIN from voting on this proposal. For purposes of determining whether this proposal has passed, abstentions will have the effect of a vote AGAINST the proposal. Broker non-votes will have no effect on the proposal.

Proposal Five— Approval of an Amendment to Terms of a Settlement Issuance Transaction. Approval of this proposal requires the affirmative vote of a majority of the outstanding shares of our Common Stock

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present in person or by proxy at the Special Meeting and entitled to vote thereon as of the Record Date. You may vote FOR, AGAINST or ABSTAIN from voting on this proposal. For purposes of determining whether this proposal has passed, abstentions will have the effect of a vote AGAINST the proposal. Broker non-votes will have no effect on the proposal.

Proposal Six – Adjournment - Approval of this proposal, whether or not a quorum is present, requires the affirmative vote of a majority of the voting power of the shares present in person or represented by proxy at the Special Meeting and entitled to vote thereon on the Record Date. You may vote FOR, AGAINST or ABSTAIN from voting on this proposal. Abstentions and broker non-votes, if any, and shares not in attendance will have no effect on the approval of this proposal. We request that you vote your shares by proxy following the methods as instructed by the notice: over the Internet, by telephone or by mail. If you choose to vote by mail, your shares will be voted in accordance with your voting instructions if the proxy card is received prior to or at the Special Meeting. If you sign and return your proxy card but do not give voting instructions, your shares will be voted **FOR (One) Authorized Stock Increase Proposal; (Two) the Reverse Stock Split Proposal (Three) Nasdaq Limit Proposal in relation to the LP Transaction (Four) Nasdaq Limit Proposal in relation to the Convertible Debt Transaction (Four) Approval of an Amendment to Terms of a Settlement Issuance Transaction and (Five) Adjournment.**

Voting by Proxy Over the Internet or by Telephone

Stockholders whose shares are registered in their own names may vote by proxy by mail, over the Internet or by telephone. Instructions for voting by proxy over the Internet or by telephone are set forth on the notice of proxy materials. The Internet and telephone voting facilities will close at 11:59 p.m. Eastern Time on December 19, 2018. The notice will also provide instructions on how you can elect to receive future proxy materials electronically or in printed form by mail. If you choose to receive future proxy materials electronically, you will receive an email with instructions containing a link to future proxy materials and a link to the proxy voting site. Your election to receive proxy materials electronically or in printed form by mail will remain in effect until you terminate such election.

If your shares are held in street name, the voting instruction form sent to you by your broker, bank or other nominee should indicate whether the institution has a process for beneficial holders to provide voting instructions over the Internet or by telephone. A number of banks and brokerage firms participate in a program that also permits stockholders whose shares are held in street name to direct their vote over the Internet or by telephone. If your bank or brokerage firm gives you this opportunity, the voting instructions from the bank or brokerage firm that accompany this Proxy Statement will tell you how to use the Internet or telephone to direct the vote of shares held in your account. If your voting instruction form does not include Internet or telephone information, please complete and return the voting instruction form in the self-addressed, postage-paid envelope provided by your broker. Stockholders who vote by proxy over the Internet or by telephone need not return a proxy card or voting instruction form by mail, but may incur costs, such as usage charges, from telephone companies or Internet service providers.

Revocability of Proxies

Any proxy may be revoked at any time before it is exercised by filing an instrument revoking it with the Company's secretary or by submitting a duly executed proxy bearing a later date prior to the time of the Special Meeting. Stockholders who have voted by proxy over the Internet or by telephone or have executed and returned a proxy and who then attend the Special Meeting and desire to vote in person are requested to notify the Company's secretary in writing prior to the time of the Special Meeting. We request that all such written notices of revocation to the Company be addressed to Carl Iberger, Secretary, c/o Precipio, Inc., at the address of our principal executive offices at 4 Science Park, New Haven, CT 06511. Our telephone number is (203) 787-7888. Stockholders may also revoke their proxy by entering a new vote over the Internet or by telephone.

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PRINCIPAL STOCKHOLDERS, DIRECTORS AND OFFICERS****Beneficial Ownership of Common Stock**

On the November 7, 2018 there were 30,171,697 issued and outstanding shares of our common stock.

The following table provides information known to the Company with respect to beneficial ownership of the Company's common stock by its directors, by its named executive officers, by all of its current executive officers and directors as a group, and by each person the Company believes beneficially owns more than 5% of its outstanding common stock as of November 7, 2018. Percentage ownership calculations for beneficial ownership for each person or entity are based on 30,171,697 shares outstanding as of November 7, 2018. The number of shares beneficially owned by each person or group as of November 7, 2018 includes shares of the Company's common stock that such person or group had the right to acquire on or within 60 days after November 7, 2018, including, but not limited to, upon the exercise of options, warrants to purchase common stock or the conversion of securities into common stock. Except as otherwise indicated in the table below, addresses of named beneficial owners are in care of Precipio, Inc., 4 Science Park, New Haven, CT 06511. Beneficial ownership information of persons other than our current executive officers and directors is based on available information including, but not limited to, Schedules 13D, 13F or 13G filed with the Securities and Exchange Commission (the "SEC") or information supplied by these persons.

Name of Beneficial Owner	Number of Shares Beneficially Owned	Percent of Class
Executive Officers and Directors:		
Ilan Danieli ⁽¹⁾	190,547	*
Carl R. Iberger ⁽²⁾	37,893	*
Jeffrey Cossman, M.D. ⁽³⁾	50,317	*
David S. Cohen ⁽⁴⁾	1,121,188	3.7 %
Samuel Riccitelli ⁽³⁾	50,317	*
Mark Rimer ⁽⁵⁾	1,287,214	4.2 %
Douglas Fisher, M.D. ⁽³⁾	50,317	*
Kathleen LaPorte ⁽³⁾	13,786	*
All executive officers and directors as a group (8 persons) ⁽⁶⁾	2,801,578	9.2 %

* Represents beneficial ownership of less than 1% of the shares of Common Stock.

Consists of 169,714 shares of Common Stock owned by IDP Holdings, LLC. (Mr. Danieli is the sole member and (1) manager of IDP Holdings, LLC.) and 20,833 shares of Common Stock issuable to Mr. Danieli upon the exercise of stock options that are exercisable or will become exercisable within 60 days after November 7, 2018.

Consists of 17,060 shares of Common Stock owned by Mr. Iberger and 20,833 shares of Common Stock issuable (2) to Mr. Iberger upon the exercise of stock options that are exercisable or will become exercisable within 60 days after November 7, 2018.

Consists solely of shares of Common Stock issuable upon the exercise of stock options that are exercisable or will (3) become exercisable within 60 days after November 7, 2018.

Consists of (i) 860,881 shares of Common Stock; (ii) 210,379 shares of Common Stock issuable upon exercise of (4) warrants to purchase shares of Common Stock that are currently exercisable; and (iii) 49,928 shares of Common Stock issuable upon the exercise of stock options that are exercisable or will become exercisable within 60 days after November 7, 2018. Based on information provided to the Company by the stockholder and disclosed in a

Schedule 13G filed on July 11, 2017. The business address for David S. Cohen is 299 Bishop Avenue, Bridgeport, Connecticut 06610.

- Consists of (i) 686,874 shares of Common Stock held by Chenies Investor LLC; (ii) 340,913 shares of Common Stock held by Chenies Management LLC; (iii) 4,179 shares of Common Stock held by Precipio Employee Holdings, LLC; (iv) warrants to purchase 175,390 shares of Common Stock held by Chenies Investor LLC; (v) (5) warrants to purchase 29,541 shares of Common Stock held by Chenies Management LLC; and (vi) 50,317 shares of Common Stock issuable upon the exercise of stock options that are exercisable or will become exercisable within 60 days after November 7, 2018 held directly by Mr. Rimer. Mr. Rimer is managing member of Chenies Investor LLC and Chenies Management LLC. Based on information provided to the Company by the stockholder and disclosed in a Schedule 13D/A filed on October 17, 2017.
- (6) Includes shares which may be acquired by executive officers and directors as a group within 60 days after November 7, 2018 through the exercise of stock options or warrants.

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SOLICITATION OF PROXIES

This solicitation is made on behalf of the Board of Directors. We will bear the costs of preparing, mailing, online processing and other costs of the proxy solicitation made by the Board of Directors. Certain of our officers and employees may solicit the submission of proxies authorizing the voting of shares in accordance with the recommendations of the Board of Directors. Such solicitations may be made by telephone, facsimile transmission or personal solicitation. No additional compensation will be paid to such officers, directors or regular employees for such services. We will reimburse banks, brokerage firms and other custodians, nominees and fiduciaries for reasonable out-of-pocket expenses incurred by them in sending proxy material to stockholders.

OTHER MATTERS AND ADDITIONAL INFORMATION

Householding of Proxy Materials

We have adopted a procedure approved by the SEC known as householding. This procedure allows multiple stockholders residing at the same address the convenience of receiving a single copy of our Notice, Annual Report and proxy materials, as applicable. This allows us to save money by reducing the number of documents we must print and mail, and helps protect the environment as well.

Householding is available to both registered stockholders (i.e., those stockholders with certificates registered in their name) and street name holders (i.e., those stockholders who hold their shares through a brokerage).

Registered Stockholders

If you are a registered stockholder and have consented to our mailing of proxy materials and other stockholder information only to one account in your household, as identified by you, we will deliver or mail a single copy of our Annual Report and proxy materials, as applicable, for all registered stockholders residing at the same address. Your consent will be perpetual unless you revoke it, which you may do at any time by contacting the Householding Department of Broadridge Financial Solutions, Inc., at 51 Mercedes Way, Edgewood, NY 11717, or by calling 1-800-690-6903. If you revoke your consent, we will begin sending you individual copies of future mailings of these documents within 30 days after we receive your revocation notice. If you received a household mailing this year, and you would like to receive additional copies of our Annual Report and proxy materials, as applicable, please submit your request to our Secretary at the address of our principal executive offices at 4 Science Park, New Haven, CT 06511, who will promptly deliver the requested copy.

Registered stockholders who have not consented to householding will continue to receive copies of annual reports and proxy materials for each registered stockholder residing at the same address. As a registered stockholder, you may elect to participate in householding and receive only a single copy of annual reports or proxy materials for all registered stockholders residing at the same address by contacting Broadridge as outlined above.

Street Name Holders

Stockholders who hold their shares through a brokerage may elect to participate in householding or revoke their consent to participate in householding by contacting their respective brokers.

Stockholder Proposals to be Presented at the Next Annual Meeting

Any stockholder who meets the requirements of the proxy rules under the Exchange Act may submit proposals to the Board of Directors to be presented at the next annual meeting. Such proposals must comply with the requirements of

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Rule 14a-8 under the Exchange Act and, because we did not hold an annual meeting in 2017, must be submitted in writing by notice delivered or mailed by first-class United States mail, postage prepaid, to our Secretary at our principal executive offices at the address set forth above within a reasonable time before we begin to print and send proxy materials in order to be considered for inclusion in the proxy materials to be disseminated by the Board of Directors for such annual meeting. We will publicly announce the deadline for submitting a proposal in a press release or in a document filed with the SEC.

Our Amended and Restated Bylaws also provide for separate notice procedures to recommend a person for nomination as a director or to propose business to be considered by stockholders at a meeting. To be considered

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timely under these provisions, the stockholder's notice must be received by our Secretary at our principal executive offices at the address set forth above (i) no later than 35 days prior to the date of the annual meeting; provided, however, that if less than 35 days' notice of a meeting of stockholders is given to the stockholders, such notice must be made or delivered to our Secretary not later than the close of business on the seventh day following the day on which the notice of a meeting was mailed; and (ii) in the case of a special meeting of stockholders, no later than the close of business on the tenth day following the day on which notice of the date of the meeting was mailed. Our Amended and Restated Bylaws also specify requirements as to the form and content of a stockholder's notice.

The Board of Directors, a designated committee thereof or the chairman of the meeting may refuse to acknowledge the introduction of any stockholder proposal if it is not made in compliance with the applicable notice provisions.

By Order of the Board of Directors of

Precipio, Inc.

Sincerely,

/s/ Ilan Danieli

Ilan Danieli

President and Chief Executive Officer

New Haven, Connecticut
November 27, 2018

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ANNEX A

**CERTIFICATE OF AMENDMENT
TO THE THIRD AMENDED AND RESTATED
CERTIFICATE OF INCORPORATION
OF
PRECIPIO, INC.**

Precipio, Inc., a corporation organized and existing under the laws of the State of Delaware (the "Corporation"), does hereby certify as follows:

1. The name of the Corporation is Precipio, Inc..
This Certificate of Amendment (this "Certificate of Amendment") amends the provisions of the Corporation's
2. Third Amended and Restated Certificate of Incorporation filed with the Secretary of State on October 26th, 2005 as amended to date (as amended, the "Certificate of Incorporation").
3. Section 4.1 of Article FOURTH of the Certificate of Incorporation is hereby amended and restated in its entirety to read as follows:

The total number of shares of capital stock which the Corporation shall have the authority to issue is 265,000,000 consisting of (a) 250,000,000 shares of Common Stock, par value \$0.01 per share, and (b) 15,000,000 shares of Preferred Stock, par value \$0.01 per share.

4. The foregoing amendment was duly adopted in accordance with Sections 141 and 242 of the General Corporation Law of the State of Delaware.
Thereafter, pursuant to a resolution of the Board of Directors of the Corporation, this Certificate of
5. Amendment was submitted to the stockholders of the Corporation for their approval, and was duly adopted by the stockholders in accordance with the provisions of Sections 222 and 242 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, Precipio, Inc. has caused this Certificate of Amendment to be executed as of [_____] 2018.

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ANNEX B

**CERTIFICATE OF AMENDMENT
TO THE THIRD AMENDED AND RESTATED
CERTIFICATE OF INCORPORATION
OF
PRECIPIO, INC.**

Precipio, Inc., a corporation organized and existing under the laws of the State of Delaware (the "Corporation"), does hereby certify as follows:

1. The name of the Corporation is Precipio, Inc..
This Certificate of Amendment (this "Certificate of Amendment") amends the provisions of the Corporation's
2. Third Amended and Restated Certificate of Incorporation filed with the Secretary of State on October 26th, 2005 as amended to date (as amended, the "Certificate of Incorporation").
3. Article FOURTH of the Certificate of Incorporation is hereby amended by adding the following new paragraph as Section 4.5:

Effective at 5:00 p.m. Eastern Time on [_____] (the "Effective Time"), each [_____] shares of the Corporation's Common Stock, par value \$0.01 per share ("Common Stock"), issued and outstanding or held by the Corporation in treasury stock immediately prior to the Effective Time shall automatically be combined, reclassified and changed into one (1) validly issued, fully paid and non-assessable share of Common Stock without any further action by the Corporation or the holder thereof, subject to the treatment of fractional interests as described below. Notwithstanding the immediately preceding sentence, no fractional shares will be issued in connection with the combination effected by the preceding sentence. Stockholders of record who otherwise would be entitled to receive fractional shares in connection with such combination will instead be entitled to receive, in lieu of such fractional shares, an amount in cash equal to the product of (i) the closing sales price of the Common Stock as reported on The Nasdaq Capital Market as of the Effective Time, multiplied by (ii) the number of shares of Common Stock held by the stockholder immediately prior to the Effective Time that would otherwise have been exchanged for such fractional shares. Each certificate that immediately prior to the Effective Time represented shares of Common Stock ("Old Certificates") shall thereafter represent that number of shares of Common Stock into which the shares of Common Stock represented by the Old Certificate shall have been combined, subject to the treatment of fractional interests as described above.

4. The foregoing amendment was duly adopted in accordance with Sections 141 and 242 of the General Corporation Law of the State of Delaware.
Thereafter, pursuant to a resolution of the Board of Directors of the Corporation, this Certificate of
5. Amendment was submitted to the stockholders of the Corporation for their approval, and was duly adopted by the stockholders in accordance with the provisions of Sections 222 and 242 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, Precipio, Inc. has caused this Certificate of Amendment to be executed as of [_____].

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ANNEX C

PURCHASE AGREEMENT

PURCHASE AGREEMENT (the Agreement), dated as of September 7, 2018, by and between **PRECIPIO, INC.**, a Delaware corporation (the Company), and **LINCOLN PARK CAPITAL FUND, LLC**, an Illinois limited liability company (the Investor).

WHEREAS:

Subject to the terms and conditions set forth in this Agreement, the Company wishes to sell to the Investor, and the Investor wishes to buy from the Company, up to Ten Million Dollars (\$10,000,000) of the Company's common stock, \$0.01 par value per share (the Common Stock). The shares of Common Stock to be purchased hereunder are referred to herein as the Purchase Shares.

NOW THEREFORE, in consideration of the mutual covenants contained in this Agreement, and for other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Company and the Investor hereby agree as follows:

1. CERTAIN DEFINITIONS.

For purposes of this Agreement, the following terms shall have the following meanings:

- (a) Accelerated Purchase Date means, with respect to any Accelerated Purchase made pursuant to Section 2(b) hereof, the Business Day immediately following the applicable Purchase Date with respect to the corresponding Regular Purchase referred to in clause (i) of the second sentence of Section 2(b) hereof.
- (b) Accelerated Purchase Floor Price means \$0.25, which shall be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split or other similar transaction and, effective upon the consummation of any such reorganization, recapitalization, non-cash dividend, stock split or other similar transaction, the Accelerated Purchase Floor Price shall mean the lower of (i) the adjusted price and (ii) \$1.00.
- (c) Accelerated Purchase Minimum Price Threshold means, with respect to any Accelerated Purchase made pursuant to Section 2(b) hereof, the greater of (i) seventy-five percent (75%) of the Closing Sale Price of the Common Stock on the applicable Purchase Date with respect to the corresponding Regular Purchase referred to in clause (i) of the second sentence of Section 2(b) hereof and (ii) the minimum per share price threshold set forth in the applicable Accelerated Purchase Notice.
- (d) Accelerated Purchase Notice means, with respect to an Accelerated Purchase made pursuant to Section 2(b) hereof, an irrevocable written notice from the Company to the Investor directing the Investor to purchase the applicable Accelerated Purchase Share Amount at the Accelerated Purchase Price on the Accelerated Purchase Date for such Accelerated Purchase in accordance with this Agreement.
- (e) Accelerated Purchase Price means, with respect to an Accelerated Purchase made pursuant to Section 2(b) hereof, the lower of (i) ninety-six percent (96%) of the VWAP for the period beginning at 9:30:01 a.m., Eastern time, on the applicable Accelerated Purchase Date, or such other time publicly announced by Principal Market as the official open (or commencement) of trading on the Principal Market on such applicable Accelerated Purchase Date (the Accelerated Purchase Commencement Time), and ending at the earliest of (A) 4:00:00 p.m., Eastern time, on such applicable Accelerated Purchase Date, or such other time publicly announced by Principal Market as the official close of trading on the Principal Market on such applicable Accelerated Purchase Date, (B) such time, from and after the Accelerated

Purchase Commencement Time for such Accelerated Purchase, that total number (or volume) of shares of Common Stock traded on the Principal Market has exceeded the applicable Accelerated Purchase Share Volume Maximum, and (C) such time, from and after the Accelerated Purchase Commencement Time for such Accelerated Purchase, that the Sale Price has fallen below the applicable Accelerated Purchase Minimum Price Threshold (such earliest of (i)(A), (i)(B) and (i)(C) above, the Accelerated Purchase Termination Time), and (ii) the Closing Sale Price of the Common Stock on such applicable Accelerated Purchase Date (to be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction).

(f) Accelerated Purchase Share Amount means, with respect to an Accelerated Purchase made pursuant to Section 2(b) hereof, the number of Purchase Shares directed by the Company to be purchased by the Investor

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in an Accelerated Purchase Notice, which number of Purchase Shares shall not exceed the lesser of (i) 300% of the number of Purchase Shares directed by the Company to be purchased by the Investor pursuant to the corresponding Regular Purchase Notice for the corresponding Regular Purchase referred to in clause (i) of the second sentence of Section 2(b) hereof (subject to the Purchase Share limitations contained in Section 2(a) hereof) and (ii) an amount equal to (A) the Accelerated Purchase Share Percentage multiplied by (B) the total number (or volume) of shares of Common Stock traded on the Principal Market during the period on the applicable Accelerated Purchase Date beginning at the Accelerated Purchase Commencement Time for such Accelerated Purchase and ending at the Accelerated Purchase Termination Time for such Accelerated Purchase.

(g) Accelerated Purchase Share Percentage means, with respect to an Accelerated Purchase made pursuant to Section 2(b) hereof, twenty-five percent (25%).

(h) Accelerated Purchase Share Volume Maximum means, with respect to an Accelerated Purchase made pursuant to Section 2(b) hereof, a number of shares of Common Stock equal to (i) the applicable Accelerated Purchase Share Amount to be purchased by the Investor pursuant to the applicable Accelerated Purchase Notice for such Accelerated Purchase, divided by (ii) the Accelerated Purchase Share Percentage (to be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction).

(i) Additional Accelerated Purchase Date means, with respect to an Additional Accelerated Purchase made pursuant to Section 2(c) hereof, the Business Day (i) that is the Accelerated Purchase Date with respect to the corresponding Accelerated Purchase referred to in clause (i) of the proviso in the second sentence of Section 2(c) hereof and (ii) on which the Investor receives, prior to 1:00 p.m., Eastern time, on such Business Day, a valid Additional Accelerated Purchase Notice for such Additional Accelerated Purchase in accordance with this Agreement.

(j) Additional Accelerated Purchase Floor Price means \$0.25, which shall be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split or other similar transaction and, effective upon the consummation of any such reorganization, recapitalization, non-cash dividend, stock split or other similar transaction, the Additional Accelerated Purchase Floor Price shall mean the lower of (i) the adjusted price and (ii) \$1.00.

(k) Additional Accelerated Purchase Minimum Price Threshold means, with respect to an Additional Accelerated Purchase made pursuant to Section 2(c) hereof, the greater of (i) seventy-five percent (75%) of the Closing Sale Price of the Common Stock on the Business Day immediately preceding the applicable Additional Accelerated Purchase Date with respect to such Additional Accelerated Purchase and (ii) the minimum per share price threshold set forth in the applicable Additional Accelerated Purchase Notice.

(l) Additional Accelerated Purchase Notice means, with respect to an Additional Accelerated Purchase made pursuant to Section 2(c) hereof, an irrevocable written notice from the Company to the Investor directing the Investor to purchase the applicable Additional Accelerated Purchase Share Amount at the Additional Accelerated Purchase Price for such Additional Accelerated Purchase in accordance with this Agreement.

(m) Additional Accelerated Purchase Price means, with respect to an Additional Accelerated Purchase made pursuant to Section 2(c) hereof, the lower of (i) ninety-six percent (96%) of the VWAP for the period on the applicable Additional Accelerated Purchase Date, beginning at the latest of (A) the applicable Accelerated Purchase Termination Time with respect to the corresponding Accelerated Purchase referred to in clause (i) of the proviso in the second sentence of Section 2(c) hereof on such Additional Accelerated Purchase Date, (B) the applicable Additional Accelerated Purchase Termination Time with respect to the most recently completed prior Additional Accelerated Purchase on such Additional Accelerated Purchase Date, as applicable, and (C) the time at which all Purchase Shares subject to all prior Accelerated Purchases and Additional Accelerated Purchases (as applicable), including, without limitation, those that have been effected on the same Business Day as the applicable Additional Accelerated Purchase

Date with respect to which the applicable Additional Accelerated Purchase relates, have theretofore been received by the Investor as DWAC Shares in accordance with this Agreement (such latest of (i)(A), (i)(B) and (i)(C) above, the Additional Accelerated Purchase Commencement Time), and ending at the earliest of (X) 4:00 p.m., Eastern time, on such Additional Accelerated Purchase Date, or such other time publicly announced by Principal Market as the official close of trading on the Principal Market on such Additional Accelerated Purchase Date, (Y) such time, from and after the Additional Accelerated Purchase Commencement Time for such Additional Accelerated Purchase, that total number (or volume) of

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shares of Common Stock traded on the Principal Market has exceeded the applicable Additional Accelerated Purchase Share Volume Maximum, and (Z) such time, from and after the Additional Accelerated Purchase Commencement Time for such Additional Accelerated Purchase, that the Sale Price has fallen below the applicable Additional Accelerated Purchase Minimum Price Threshold (such earliest of (i)(X), (i)(Y) and (i)(Z) above, the Additional Accelerated Purchase Termination Time), and (ii) the Closing Sale Price of the Common Stock on such Additional Accelerated Purchase Date (to be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction).

(n) Additional Accelerated Purchase Share Amount means, with respect to an Additional Accelerated Purchase made pursuant to Section 2(c) hereof, the number of Purchase Shares directed by the Company to be purchased by the Investor on an Additional Accelerated Purchase Notice, which number of Purchase Shares shall not exceed the lesser of (i) 300% of the number of Purchase Shares directed by the Company to be purchased by the Investor pursuant to the corresponding Regular Purchase Notice for the corresponding Regular Purchase referred to in clause (i) of the proviso in the second sentence of Section 2(c) hereof (subject to the Purchase Share limitations contained in Section 2(a) hereof) and (ii) an amount equal to (A) the Additional Accelerated Purchase Share Percentage multiplied by (B) the total number (or volume) of shares of Common Stock traded on the Principal Market during the period on the applicable Additional Accelerated Purchase Date beginning at the Additional Accelerated Purchase Commencement Time for such Additional Accelerated Purchase and ending at the Additional Accelerated Purchase Termination Time for such Additional Accelerated Purchase.

(o) Additional Accelerated Purchase Share Percentage means, with respect to an Additional Accelerated Purchase made pursuant to Section 2(c) hereof, twenty-five percent (25%).

(p) Additional Accelerated Purchase Share Volume Maximum means, with respect to an Additional Accelerated Purchase made pursuant to Section 2(c) hereof, a number of shares of Common Stock equal to (i) the applicable Additional Accelerated Purchase Share Amount to be purchased by the Investor pursuant to the applicable Additional Accelerated Purchase Notice for such Additional Accelerated Purchase, divided by (ii) the Additional Accelerated Purchase Share Percentage (to be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction).

(q) Alternate Adjusted Regular Purchase Share Limit means, with respect to a Regular Purchase made pursuant to Section 2(a) hereof, the maximum number of Purchase Shares which, taking into account the applicable per share Purchase Price therefor calculated in accordance with this Agreement, would enable the Company to deliver to the Investor, on the applicable Purchase Date for such Regular Purchase, a Regular Purchase Notice for a Purchase Amount equal to, or as closely approximating without exceeding, One Hundred Thousand Dollars (\$100,000).

(r) Available Amount means, initially, Ten Million Dollars (\$10,000,000) in the aggregate, which amount shall be reduced by the Purchase Amount each time the Investor purchases Purchase Shares pursuant to Section 2 hereof.

(s) Average Price means a price per Purchase Share (rounded to the nearest tenth of a cent) equal to the quotient obtained by dividing (i) the aggregate gross purchase price paid by the Investor for all Purchase Shares purchased pursuant to this Agreement, by (ii) the aggregate number of Purchase Shares issued pursuant to this Agreement.

(t) Bankruptcy Law means Title 11, U.S. Code, or any similar federal or state law for the relief of debtors.

(u) Base Price means a price per Purchase Share equal to the sum of (i) the Signing Market Price and (ii) \$0.062 (subject to adjustment for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction that occurs on or after the date of this Agreement).

(v) Business Day means any day on which the Principal Market is open for trading, including any day on which the Principal Market is open for trading for a period of time less than the customary time.

(w) Closing Sale Price means, for any security as of any date, the last closing sale price for such security on the Principal Market as reported by the Principal Market.

(x) Confidential Information means any information disclosed by either party to the other party, either directly or indirectly, in writing, orally or by inspection of tangible objects (including, without limitation,

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documents, prototypes, samples, plant and equipment), which is designated as Confidential, Proprietary or some similar designation. Information communicated orally shall be considered Confidential Information if such information is confirmed in writing as being Confidential Information within ten (10) Business Days after the initial disclosure. Confidential Information may also include information disclosed to a disclosing party by third parties. Confidential Information shall not, however, include any information which (i) was publicly known and made generally available in the public domain prior to the time of disclosure by the disclosing party; (ii) becomes publicly known and made generally available after disclosure by the disclosing party to the receiving party through no action or inaction of the receiving party; (iii) is already in the possession of the receiving party without confidential restriction at the time of disclosure by the disclosing party as shown by the receiving party's files and records immediately prior to the time of disclosure; (iv) is obtained by the receiving party from a third party without a breach of such third party's obligations of confidentiality; (v) is independently developed by the receiving party without use of or reference to the disclosing party's Confidential Information, as shown by documents and other competent evidence in the receiving party's possession; or (vi) is required by law to be disclosed by the receiving party, provided that the receiving party gives the disclosing party prompt written notice of such requirement prior to such disclosure and assistance in obtaining an order protecting the information from public disclosure.

(y) Custodian means any receiver, trustee, assignee, liquidator or similar official under any Bankruptcy Law.

(z) DTC means The Depository Trust Company, or any successor performing substantially the same function for the Company.

(aa) DWAC Shares means shares of Common Stock that are (i) issued in electronic form, (ii) freely tradable and transferable and without restriction on resale and (iii) timely credited by the Company to the Investor's or its designee's specified Deposit/Withdrawal at Custodian (DWAC) account with DTC under its Fast Automated Securities Transfer (FAST) Program, or any similar program hereafter adopted by DTC performing substantially the same function.

(bb) Exchange Act means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

(cc) Floor Price means \$0.10, which shall be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction and, effective upon the consummation of any such reorganization, recapitalization, non-cash dividend, stock split, reverse stock split or other similar transaction, the Floor Price shall mean the lower of (i) the adjusted price and (ii) \$0.10.

(dd) Fully Adjusted Regular Purchase Share Limit means, with respect to any reorganization, recapitalization, non-cash dividend, stock split or other similar transaction from and after the date of this Agreement, the Regular Purchase Share Limit (as defined in Section 2(a) hereof) in effect on the applicable date of determination, after giving effect to the full proportionate adjustment thereto made pursuant to Section 2(a) hereof for or in respect of such reorganization, recapitalization, non-cash dividend, stock split or other similar transaction.

(ee) Material Adverse Effect means any material adverse effect on (i) the enforceability of any Transaction Document, (ii) the results of operations, assets, business or financial condition of the Company and its Subsidiaries, taken as a whole, other than any material adverse effect that resulted exclusively from (A) any change in the United States or foreign economies or securities or financial markets in general that does not have a disproportionate effect on the Company and its Subsidiaries, taken as a whole, (B) any change that generally affects the industry in which the Company and its Subsidiaries operate that does not have a disproportionate effect on the Company and its Subsidiaries, taken as a whole, (C) any change arising in connection with earthquakes, hostilities, acts of war, sabotage or terrorism or military actions or any escalation or material worsening of any such hostilities, acts of war, sabotage or terrorism or military actions existing as of the date hereof, (D) any action taken by the Investor, its

affiliates or its or their successors and assigns with respect to the transactions contemplated by this Agreement, (E) the effect of any change in applicable laws or accounting rules that does not have a disproportionate effect on the Company and its Subsidiaries, taken as a whole, or (F) any change resulting from compliance with terms of this Agreement or the consummation of the transactions contemplated by this Agreement, or (iii) the Company's ability to perform in any material respect on a timely basis its obligations under any Transaction Document to be performed as of the date of determination.

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(ff) Maturity Date means the first day of the month immediately following the twenty-four (24) month anniversary of the Commencement Date.

(gg) PEA Period means the period commencing at 9:30 a.m., Eastern time, on the fifthth Business Day immediately prior to the filing of any post-effective amendment to the Registration Statement (as defined herein) or New Registration Statement (as such term is defined in the Registration Rights Agreement), and ending at 9:30 a.m., Eastern time, on the Business Day immediately following, the effective date of any post-effective amendment to the Registration Statement (as defined herein) or New Registration Statement (as such term is defined in the Registration Rights Agreement).

(hh) Person means an individual or entity including but not limited to any limited liability company, a partnership, a joint venture, a corporation, a trust, an unincorporated organization and a government or any department or agency thereof.

(ii) Principal Market means The Nasdaq Capital Market (or any nationally recognized successor thereto); provided, however, that in the event the Company's Common Stock is ever listed or traded on The Nasdaq Global Market, The Nasdaq Global Select Market, the New York Stock Exchange, the NYSE American, the NYSE Arca, the OTC Bulletin Board, or the OTCQX or OTCQB operated by the OTC Markets Group, Inc. (or any nationally recognized successor to any of the foregoing), then the Principal Market shall mean such other market or exchange on which the Company's Common Stock is then listed or traded.

(jj) Purchase Amount means, with respect to any Regular Purchase, any Accelerated Purchase or any Additional Accelerated Purchase made hereunder, as applicable, the portion of the Available Amount to be purchased by the Investor pursuant to Section 2 hereof.

(kk) Purchase Date means, with respect to a Regular Purchase made pursuant to Section 2(a) hereof, the Business Day on which the Investor receives, after 4:00 p.m., Eastern time, but prior to 5:00 p.m., Eastern time, on such Business Day, a valid Regular Purchase Notice for such Regular Purchase in accordance with this Agreement.

(ll) Purchase Price means, with respect to any Regular Purchase made pursuant to Section 2(a) hereof, the lower of: (i) the lowest Sale Price on the applicable Purchase Date for such Regular Purchase and (ii) the arithmetic average of the three (3) lowest Closing Sale Prices for the Common Stock during the ten (10) consecutive Business Days ending on the Business Day immediately preceding such Purchase Date for such Regular Purchase (in each case, to be appropriately adjusted for any reorganization, recapitalization, non-cash dividend, stock split or other similar transaction that occurs on or after the date of this Agreement).

(mm) Regular Purchase Notice means, with respect to any Regular Purchase pursuant to Section 2(a) hereof, an irrevocable written notice from the Company to the Investor directing the Investor to buy such applicable amount of Purchase Shares at the applicable Purchase Price as specified by the Company therein on the applicable Purchase Date for such Regular Purchase.

(nn) Sale Price means any trade price for the shares of Common Stock on the Principal Market as reported by the Principal Market.

(oo) SEC means the U.S. Securities and Exchange Commission.

(pp) Securities means, collectively, the Purchase Shares and the Commitment Shares.

(qq) Securities Act means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

(rr) Signing Market Price means \$0.4108, representing the consolidated closing bid price of the Common Stock on The Nasdaq Capital Market on the date of this Agreement.

(ss) Subsidiary means any Person the Company wholly-owns or controls, or in which the Company, directly or indirectly, owns a majority of the voting stock or similar voting interest, in each case that would be disclosable pursuant to Item 601(b)(21) of Regulation S-K promulgated under the Securities Act.

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(tt) Transaction Documents means, collectively, this Agreement and the schedules and exhibits hereto, the Registration Rights Agreement and the schedules and exhibits thereto, and each of the other agreements, documents, certificates and instruments entered into or furnished by the parties hereto in connection with the transactions contemplated hereby and thereby.

(uu) Transfer Agent means EQ Shareowner Services, or such other Person who is then serving as the transfer agent for the Company in respect of the Common Stock.

(vv) VWAP means in respect of an Accelerated Purchase Date and an Additional Accelerated Purchase Date, as applicable, the volume weighted average price of the Common Stock on the Principal Market, as reported on the Principal Market.

2. PURCHASE OF COMMON STOCK.

Subject to the terms and conditions set forth in this Agreement, the Company has the right to sell to the Investor, and the Investor has the obligation to purchase from the Company, Purchase Shares as follows:

(a) Commencement of Regular Sales of Common Stock. Upon the satisfaction of all of the conditions set forth in Sections 7 and 8 hereof (the Commencement and the date of satisfaction of such conditions the Commencement Date) and thereafter, the Company shall have the right, but not the obligation, to direct the Investor, by its delivery to the Investor of a Regular Purchase Notice from time to time, to purchase up to Four Hundred Fifty Thousand (450,000) Purchase Shares, subject to adjustment as set forth below in this Section 2(a) (such maximum number of Purchase Shares, as may be adjusted from time to time, the Regular Purchase Share Limit), at the Purchase Price on the Purchase Date (each such purchase a Regular Purchase); provided, however, that (i) the Regular Purchase Share Limit shall be increased to Five Hundred Thousand (500,000) Purchase Shares, if the Closing Sale Price of the Common Stock on the applicable Purchase Date is not below \$0.50, and (ii) the Regular Purchase Share Limit shall be increased to Five Hundred Fifty Thousand (550,000) Purchase Shares, if the Closing Sale Price of the Common Stock on the applicable Purchase Date is not below \$0.75 (all of which share and dollar amounts shall be appropriately proportionately adjusted for any reorganization, recapitalization, non-cash dividend, stock split or other similar transaction; provided that if, after giving effect to the full proportionate adjustment to the Regular Purchase Share Limit therefor, the Fully Adjusted Regular Purchase Share Limit then in effect would preclude the Company from delivering to the Investor a Regular Purchase Notice hereunder for a Purchase Amount (calculated by multiplying (X) the number of Purchase Shares equal to the Fully Adjusted Regular Purchase Share Limit, by (Y) the Purchase Price per Purchase Share covered by such Regular Purchase Notice on the applicable Purchase Date therefor) equal to or greater than One Hundred Thousand Dollars (\$100,000), the Regular Purchase Share Limit for such Regular Purchase Notice shall not be fully adjusted to equal the applicable Fully Adjusted Regular Purchase Share Limit, but rather the Regular Purchase Share Limit for such Regular Purchase Notice shall be adjusted to equal the applicable Alternate Adjusted Regular Purchase Share Limit as of the applicable Purchase Date for such Regular Purchase Notice); and provided, further, however, that the Investor's committed obligation under any single Regular Purchase, other than any Regular Purchase with respect to which an Alternate Adjusted Regular Purchase Share Limit shall apply, shall not exceed One Million Dollars (\$1,000,000). If the Company delivers any Regular Purchase Notice for a Purchase Amount in excess of the limitations contained in the immediately preceding sentence, such Regular Purchase Notice shall be void *ab initio* to the extent of the amount by which the number of Purchase Shares set forth in such Regular Purchase Notice exceeds the number of Purchase Shares which the Company is permitted to include in such Purchase Notice in accordance herewith, and the Investor shall have no obligation to purchase such excess Purchase Shares in respect of such Regular Purchase Notice; provided, however, that the Investor shall remain obligated to purchase the number of Purchase Shares which the Company is permitted to include in such Regular Purchase Notice. The Company may deliver a Regular Purchase Notice to the Investor as often as every Business Day, so long as the Company has not failed to deliver Purchase Shares for the most recent prior Regular Purchase. Notwithstanding the foregoing, the Company shall not deliver a Regular Purchase Notice to the Investor (i) on any Purchase Date that the

Closing Sale Price of the Common Stock is less than the Floor Price or (ii) during the PEA Period.

(b) Accelerated Purchases. Subject to the terms and conditions of this Agreement, from and after the Commencement Date, in addition to purchases of Purchase Shares as described in Section 2(a) above, the Company shall also have the right, but not the obligation, to direct the Investor, by its delivery to the Investor of an Accelerated Purchase Notice from time to time in accordance with this Agreement, to purchase the applicable

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Accelerated Purchase Share Amount at the Accelerated Purchase Price on the Accelerated Purchase Date therefor in accordance with this Agreement (each such purchase, an Accelerated Purchase). The Company may deliver an Accelerated Purchase Notice to the Investor only on a Purchase Date on which (i) the Company also properly submitted a Regular Purchase Notice providing for a Regular Purchase of a number of Purchase Shares not less than the Regular Purchase Share Limit then in effect on such Purchase Date in accordance with this Agreement (including, without limitation, giving effect to any automatic increase to the Regular Purchase Share Limit as a result of the Closing Sale Price of the Common Stock exceeding certain thresholds set forth in Section 2(a) above on such Purchase Date and any other adjustments to the Regular Purchase Share Limit, in each case pursuant to Section 2(a) above) and (ii) the Closing Sale Price of the Common Stock is not less than the Accelerated Purchase Floor Price. If the Company delivers any Accelerated Purchase Notice directing the Investor to purchase an amount of Purchase Shares that exceeds the Accelerated Purchase Share Amount that the Company is then permitted to include in such Accelerated Purchase Notice, such Accelerated Purchase Notice shall be void *ab initio* to the extent of the amount by which the number of Purchase Shares set forth in such Accelerated Purchase Notice exceeds the Accelerated Purchase Share Amount that the Company is then permitted to include in such Accelerated Purchase Notice (which shall be confirmed in an Accelerated Purchase Confirmation), and the Investor shall have no obligation to purchase such excess Purchase Shares in respect of such Accelerated Purchase Notice; provided, however, that the Investor shall remain obligated to purchase the Accelerated Purchase Share Amount which the Company is permitted to include in such Accelerated Purchase Notice. Within one (1) Business Day after completion of each Accelerated Purchase Date for an Accelerated Purchase, the Investor will provide to the Company a written confirmation of such Accelerated Purchase setting forth the applicable Accelerated Purchase Share Amount and Accelerated Purchase Price for such Accelerated Purchase (each, an Accelerated Purchase Confirmation). Notwithstanding the foregoing, the Company shall not deliver any Accelerated Purchase Notices during the PEA Period.

(c) Additional Accelerated Purchases. Subject to the terms and conditions of this Agreement, from and after the Commencement Date, in addition to purchases of Purchase Shares as described in Section 2(a) and Section 2(b) above, the Company shall also have the right, but not the obligation, to direct the Investor, by its timely delivery to the Investor of an Additional Accelerated Purchase Notice on an Additional Accelerated Purchase Date in accordance with this Agreement, to purchase the applicable Additional Accelerated Purchase Share Amount at the applicable Additional Accelerated Purchase Price therefor in accordance with this Agreement (each such purchase, an Additional Accelerated Purchase). The Company may deliver multiple Additional Accelerated Purchase Notices to the Investor on an Additional Accelerated Purchase Date; provided, however, that the Company may deliver an Additional Accelerated Purchase Notice to the Investor only (i) on a Business Day that is also the Accelerated Purchase Date for an Accelerated Purchase with respect to which the Company properly submitted to the Investor an Accelerated Purchase Notice in accordance with this Agreement on the applicable Purchase Date for a Regular Purchase of a number of Purchase Shares not less than the Regular Purchase Share Limit then in effect in accordance with this Agreement (including, without limitation, giving effect to any automatic increase to the Regular Purchase Share Limit as a result of the Closing Sale Price of the Common Stock exceeding certain thresholds set forth in Section 2(a) above on such Purchase Date and any other adjustments to the Regular Purchase Share Limit, in each case pursuant to Section 2(a) above), (ii) if the Closing Sale Price of the Common Stock on the Business Day immediately preceding the Business Day on which such Additional Accelerated Purchase Notice is delivered is not less than the Additional Accelerated Purchase Floor Price, and (iii) if all Purchase Shares subject to all prior Regular Purchases, Accelerated Purchases and Additional Accelerated Purchases, including, without limitation, those that have been effected on the same Business Day as the applicable Additional Accelerated Purchase Date with respect to which the applicable Additional Accelerated Purchase relates, in each case have theretofore been received by the Investor as DWAC Shares in accordance with this Agreement. If the Company delivers any Additional Accelerated Purchase Notice directing the Investor to purchase an amount of Purchase Shares that exceeds the Additional Accelerated Purchase Share Amount that the Company is then permitted to include in such Additional Accelerated Purchase Notice, such Additional Accelerated Purchase Notice shall be void *ab initio* to the extent of the amount by which the number of Purchase Shares set forth in such Additional Accelerated Purchase Notice exceeds the Additional Accelerated Purchase Share

Amount that the Company is then permitted to include in such Additional Accelerated Purchase Notice (which shall be confirmed in an Additional Accelerated Purchase Confirmation), and the Investor shall have no obligation to purchase such excess Purchase Shares in respect of such Additional Accelerated Purchase Notice; provided, however, that the Investor shall remain obligated to purchase the Additional Accelerated Purchase Share Amount which the Company is permitted to include in such Additional

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Accelerated Purchase Notice. Within one (1) Business Day after completion of each Additional Accelerated Purchase Date, the Investor will provide to the Company a written confirmation of each Additional Accelerated Purchase on such Additional Accelerated Purchase Date setting forth the applicable Additional Accelerated Purchase Share Amount and Additional Accelerated Purchase Price for each such Additional Accelerated Purchase on such Additional Accelerated Purchase Date (each, an Additional Accelerated Purchase Confirmation). Notwithstanding the foregoing, the Company shall not deliver any Additional Accelerated Purchase Notices during the PEA Period.

(d) Payment for Purchase Shares. For each Regular Purchase, the Investor shall pay to the Company an amount equal to the Purchase Amount with respect to such Regular Purchase as full payment for such Purchase Shares via wire transfer of immediately available funds on the same Business Day that the Investor receives such Purchase Shares, if such Purchase Shares are received by the Investor before 1:00 p.m., Eastern time, or, if such Purchase Shares are received by the Investor after 1:00 p.m., Eastern time, the next Business Day. For each Accelerated Purchase and each Additional Accelerated Purchase, the Investor shall pay to the Company an amount equal to the Purchase Amount with respect to such Accelerated Purchase and Additional Accelerated Purchase, respectively, as full payment for such Purchase Shares via wire transfer of immediately available funds on the second Business Day following the date that the Investor receives such Purchase Shares. If the Company or the Transfer Agent shall fail for any reason or for no reason to electronically transfer any Purchase Shares as DWAC Shares in respect of a Regular Purchase, an Accelerated Purchase or an Additional Accelerated Purchase (as applicable) within two (2) Business Days following the receipt by the Company of the Purchase Price, Accelerated Purchase Price and Additional Accelerated Purchase Price, respectively, therefor in compliance with this Section 2(d), and if on or after such Business Day the Investor purchases (in an open market transaction or otherwise) shares of Common Stock to deliver in satisfaction of a sale by the Investor of such Purchase Shares that the Investor anticipated receiving from the Company in respect of such Regular Purchase, Accelerated Purchase or Additional Accelerated Purchase (as applicable), then the Company shall, within two (2) Business Days after the Investor's request, either (i) pay cash to the Investor in an amount equal to the Investor's total purchase price (including brokerage commissions, if any) for the shares of Common Stock so purchased (the Cover Price), at which point the Company's obligation to deliver such Purchase Shares as DWAC Shares shall terminate, or (ii) promptly honor its obligation to deliver to the Investor such Purchase Shares as DWAC Shares and pay cash to the Investor in an amount equal to the excess (if any) of the Cover Price over the total Purchase Amount paid by the Investor pursuant to this Agreement for all of the Purchase Shares to be purchased by the Investor in connection with such Regular Purchase, Accelerated Purchase and Additional Accelerated Purchase (as applicable). The Company shall not issue any fraction of a share of Common Stock upon any Regular Purchase, Accelerated Purchase or Additional Accelerated Purchase. If the issuance would result in the issuance of a fraction of a share of Common Stock, the Company shall round such fraction of a share of Common Stock up or down to the nearest whole share. All payments made under this Agreement shall be made in lawful money of the United States of America or wire transfer of immediately available funds to such account as the Company may from time to time designate by written notice in accordance with the provisions of this Agreement. Whenever any amount expressed to be due by the terms of this Agreement is due on any day that is not a Business Day, the same shall instead be due on the next succeeding day that is a Business Day.

(e) Compliance with Rules of Principal Market.

(i) Exchange Cap. Subject to Section 2(e)(ii) below, the Company shall not issue or sell any shares of Common Stock pursuant to this Agreement, and the Investor shall not purchase or acquire any shares of Common Stock pursuant to this Agreement, to the extent that after giving effect thereto, the aggregate number of shares of Common Stock that would be issued pursuant to this Agreement would exceed the maximum number of shares of Common Stock that the Company may issue pursuant to this Agreement and the transactions contemplated hereby (taking into account all shares of Common Stock issued or issuable pursuant to any transaction or series of transactions that may be aggregated with the transactions contemplated by this Agreement under applicable rules of The Nasdaq Stock Market) without (1) breaching the Company's obligations under the applicable rules of The Nasdaq Stock Market or

(2) obtaining stockholder approval under the applicable rules of The Nasdaq Stock Market (which maximum number of shares is 4,628,858, representing 19.99% of the shares of Common Stock outstanding on the date of this Agreement) (the Exchange Cap), unless and until the Company elects to solicit stockholder approval of the issuance of Common Stock as contemplated by this Agreement and the stockholders of the Company have in fact approved the issuance of Common Stock as contemplated by this Agreement in accordance with the applicable rules and regulations of The Nasdaq Stock Market, and the

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Certificate of Incorporation and Bylaws of the Company. For the avoidance of doubt, the Company may, but shall be under no obligation to, request its stockholders to approve the issuance of Common Stock as contemplated by this Agreement; provided, that if stockholder approval is not obtained in accordance with this Section 2(e)(i), the Exchange Cap shall be applicable for all purposes of this Agreement and the transactions contemplated hereby at all times during the term of this Agreement (except as set forth in Section 2(e)(ii) below).

(ii) At-Market Transaction. Notwithstanding Section 2(e)(i) above, the Exchange Cap shall not be applicable for any purposes of this Agreement and the transactions contemplated hereby, solely to the extent that (and only for so long as) the Average Price shall equal or exceed the Base Price (it being hereby acknowledged and agreed that the Exchange Cap shall be applicable for all purposes of this Agreement and the transactions contemplated hereby at all other times during the term of this Agreement, unless the stockholder approval referred to in Section 2(e)(i) is obtained).

(iii) General. The Company shall not issue any shares of Common Stock pursuant to this Agreement if such issuance would reasonably be expected to result in (A) a violation of the Securities Act or (B) a breach of the rules and regulations of The Nasdaq Stock Market. The provisions of this Section 2(e) shall be implemented in a manner otherwise than in strict conformity with the terms hereof only if necessary to ensure compliance with the Securities Act and the rules and regulations of The Nasdaq Stock Market.

(f) Beneficial Ownership Limitation. Notwithstanding anything to the contrary contained in this Agreement, the Company shall not issue or sell, and the Investor shall not purchase or acquire, any shares of Common Stock under this Agreement which, when aggregated with all other shares of Common Stock then beneficially owned by the Investor and its affiliates (as calculated pursuant to Section 13(d) of the Exchange Act and Rule 13d-3 promulgated thereunder), would result in the beneficial ownership by the Investor of more than 4.99% of the then issued and outstanding shares of Common Stock (the Beneficial Ownership Limitation). Upon the written or oral request of the Investor, the Company shall promptly (but not later than 24 hours) confirm orally or in writing to the Investor the number of shares of Common Stock then outstanding. The Investor and the Company shall each cooperate in good faith in the determinations required hereby and the application hereof. The Investor's written certification to the Company of the applicability of the Beneficial Ownership Limitation, and the resulting effect thereof hereunder at any time, shall be conclusive with respect to the applicability thereof and such result absent manifest error.

3. INVESTOR'S REPRESENTATIONS AND WARRANTIES.

The Investor represents and warrants to the Company that as of the date hereof and as of the Commencement Date:

(a) Investment Purpose. The Investor is acquiring the Securities as principal for its own account and not with a view to or for distributing or reselling such Securities or any part thereof in violation of the Securities Act or any applicable state securities law, has no present intention of distributing any of such Securities in violation of the Securities Act or any applicable state securities law and has no direct or indirect arrangement or understandings with any other Persons to distribute or regarding the distribution of such Securities in violation of the Securities Act or any applicable state securities law (this representation and warranty not limiting the Investor's right to sell the Securities at any time pursuant to the Registration Statement described herein or otherwise in compliance with applicable federal and state securities laws). The Investor is acquiring the Securities hereunder in the ordinary course of its business.

(b) Accredited Investor Status. The Investor is an accredited investor as that term is defined in Rule 501(a)(3) of Regulation D promulgated under the Securities Act.

(c) Reliance on Exemptions. The Investor understands that the Securities are being offered and sold to it in reliance on specific exemptions from the registration requirements of United States federal and state securities laws and that the Company is relying in part upon the truth and accuracy of, and the Investor's compliance with, the representations,

warranties, agreements, acknowledgments and understandings of the Investor set forth herein in order to determine the availability of such exemptions and the eligibility of the Investor to acquire the Securities.

(d) Information. The Investor understands that its investment in the Securities involves a high degree of risk. The Investor (i) is able to bear the economic risk of an investment in the Securities including a total loss thereof, (ii) has such knowledge and experience in financial and business matters that it is capable of evaluating

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the merits and risks of the proposed investment in the Securities and (iii) has had an opportunity to ask questions of and receive answers from the officers of the Company concerning the financial condition and business of the Company and others matters related to an investment in the Securities. Neither such inquiries nor any other due diligence investigations conducted by the Investor or its representatives shall modify, amend or affect the Investor's right to rely on the Company's representations and warranties contained in Section 4 below. The Investor has sought such accounting, legal and tax advice as it has considered necessary to make an informed investment decision with respect to its acquisition of the Securities.

(e) No Governmental Review. The Investor understands that no U.S. federal or state agency or any other government or governmental agency has passed on or made any recommendation or endorsement of the Securities or the fairness or suitability of an investment in the Securities nor have such authorities passed upon or endorsed the merits of the offering of the Securities.

(f) Transfer or Sale. The Investor understands that (i) the Securities may not be offered for sale, sold, assigned or transferred unless (A) registered pursuant to the Securities Act or (B) an exemption exists permitting such Securities to be sold, assigned or transferred without such registration; (ii) any sale of the Securities made in reliance on Rule 144 may be made only in accordance with the terms of Rule 144 and further, if Rule 144 is not applicable, any resale of the Securities under circumstances in which the seller (or the Person through whom the sale is made) may be deemed to be an underwriter (as that term is defined in the Securities Act) may require compliance with some other exemption under the Securities Act or the rules and regulations of the SEC thereunder.

(g) Validity: Enforcement. This Agreement has been duly and validly authorized, executed and delivered on behalf of the Investor and is a valid and binding agreement of the Investor enforceable against the Investor in accordance with its terms, subject as to enforceability to general principles of equity and to applicable bankruptcy, insolvency, reorganization, moratorium, liquidation and other similar laws relating to, or affecting generally, the enforcement of applicable creditors' rights and remedies.

(h) Residency. The Investor is a resident of the State of Illinois.

(i) No Short Selling. The Investor represents and warrants to the Company that at no time prior to the date of this Agreement has any of the Investor, its agents, representatives or affiliates engaged in or effected, in any manner whatsoever, directly or indirectly, any (i) short sale (as such term is defined in Rule 200 of Regulation SHO of the Exchange Act) of the Common Stock or (ii) hedging transaction, which establishes a net short position with respect to the Common Stock.

4. REPRESENTATIONS AND WARRANTIES OF THE COMPANY.

The Company represents and warrants to the Investor that, except as set forth in the disclosure schedules attached hereto, which exceptions shall be deemed to be a part of the representations and warranties made hereunder, as of the date hereof and as of the Commencement Date:

(a) Organization and Qualification. The Company and each of its Subsidiaries is an entity duly incorporated or otherwise organized, validly existing and in good standing under the laws of the jurisdiction of its incorporation or organization, with the requisite corporate power and authority to own and use its properties and assets and to carry on its business as currently conducted. Neither the Company nor any of its Subsidiaries is in violation or default of any of the provisions of its respective certificate or articles of incorporation, bylaws or other organizational or charter documents. Each of the Company and its Subsidiaries is duly qualified to conduct business and is in good standing as a foreign corporation or other entity in each jurisdiction in which the nature of the business conducted or property owned by it makes such qualification necessary, except where the failure to be so qualified or in good standing, as the case may be, could not have or reasonably be expected to result in a Material Adverse Effect and no proceeding has

been instituted in any such jurisdiction revoking, limiting or curtailing or seeking to revoke, limit or curtail such power and authority or qualification. The Company has no Subsidiaries except as set forth on Exhibit 21.1 to the Company's Annual Report on Form 10-K for the year ended December 31, 2017.

(b) Authorization; Enforcement; Validity. (i) The Company has the requisite corporate power and authority to enter into and perform its obligations under this Agreement, the Registration Rights Agreement and each of the other Transaction Documents, and to issue the Securities in accordance with the terms hereof and thereof, (ii) the execution and delivery of the Transaction Documents by the Company and the consummation by it of the

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transactions contemplated hereby and thereby, including without limitation, the issuance of the Commitment Shares (as defined below in Section 5(e)) and the reservation for issuance and the issuance of the Purchase Shares issuable under this Agreement, have been duly authorized by the Company's Board of Directors and no further consent or authorization is required by the Company, its Board of Directors or its stockholders (except as provided in this Agreement), (iii) each of this Agreement and the Registration Rights Agreement has been, and each other Transaction Document shall be on the Commencement Date, duly executed and delivered by the Company and (iv) each of this Agreement and the Registration Rights Agreement constitutes, and each other Transaction Document upon its execution on behalf of the Company, shall constitute, the valid and binding obligations of the Company enforceable against the Company in accordance with their terms, except as such enforceability may be limited by general principles of equity or applicable bankruptcy, insolvency, reorganization, moratorium, liquidation or similar laws relating to, or affecting generally, the enforcement of creditors' rights and remedies. The Board of Directors of the Company has approved the resolutions (the Signing Resolutions) substantially in the form as set forth as Exhibit C attached hereto to authorize this Agreement, the Registration Rights Agreement and the transactions contemplated hereby. The Signing Resolutions are valid, in full force and effect and have not been modified or supplemented in any respect. The Company has delivered to the Investor a true and correct copy of minutes of a meeting of the Board of Directors of the Company at which the Signing Resolutions were duly adopted by the Board of Directors or a unanimous written consent adopting the Signing Resolutions executed by all of the members of the Board of Directors of the Company. Except as set forth in this Agreement, no other approvals or consents of the Company's Board of Directors, any authorized committee thereof, or stockholders (except as provided in this Agreement) is necessary under applicable laws and the Company's Certificate of Incorporation or Bylaws to authorize the execution and delivery of the Transaction Documents or any of the transactions contemplated thereby, including, but not limited to, the issuance of the Commitment Shares and the issuance of the Purchase Shares.

(c) Capitalization. As of the date hereof, the authorized capital stock of the Company is set forth in the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2018. Except as disclosed in the SEC Documents (as defined below), (i) no shares of the Company's capital stock are subject to preemptive rights or any other similar rights or any liens or encumbrances suffered or permitted by the Company, (ii) there are no outstanding debt securities, (iii) there are no outstanding options, warrants, scrip, rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities or rights convertible into, any shares of capital stock of the Company or any of its Subsidiaries, or contracts, commitments, understandings or arrangements by which the Company or any of its Subsidiaries is or may become bound to issue additional shares of capital stock of the Company or any of its Subsidiaries or options, warrants, scrip, rights to subscribe to, calls or commitments of any character whatsoever relating to, or securities or rights convertible into, any shares of capital stock of the Company or any of its Subsidiaries, (iv) there are no agreements or arrangements under which the Company or any of its Subsidiaries is obligated to register the sale of any of their securities under the Securities Act (except the Registration Rights Agreement), (v) there are no outstanding securities or instruments of the Company or any of its Subsidiaries which contain any redemption or similar provisions, and there are no contracts, commitments, understandings or arrangements by which the Company or any of its Subsidiaries is or may become bound to redeem a security of the Company or any of its Subsidiaries, (vi) there are no securities or instruments containing anti-dilution or similar provisions that will be triggered by the issuance of the Securities as described in this Agreement and (vii) the Company does not have any stock appreciation rights or phantom stock plans or agreements or any similar plan or agreement. The Company has furnished to the Investor true and correct copies of the Company's Certificate of Incorporation, as amended and as in effect on the date hereof (the Certificate of Incorporation), and the Company's Bylaws, as amended and as in effect on the date hereof (the Bylaws), and summaries of the material terms of all securities convertible into or exercisable for Common Stock, if any, and copies of any documents containing the material rights of the holders thereof in respect thereto that are not disclosed in the SEC Documents.

(d) Issuance of Securities. Upon issuance and payment therefor in accordance with the terms and conditions of this Agreement, the Purchase Shares shall be validly issued, fully paid and nonassessable and free from all taxes, liens,

charges, restrictions, rights of first refusal and preemptive rights with respect to the issue thereof, with the holders being entitled to all rights accorded to a holder of Common Stock. Upon issuance in accordance with the terms and conditions of this Agreement, the Commitment Shares (as defined below in Section 5(e)) shall be validly issued, fully paid and nonassessable and free from all taxes, liens, charges,

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restrictions, rights of first refusal and preemptive rights with respect to the issue thereof, with the holders being entitled to all rights accorded to a holder of Common Stock. 25,000,000 shares of Common Stock have been duly authorized and reserved for issuance upon purchase under this Agreement as Purchase Shares.

(e) No Conflicts. The execution, delivery and performance of the Transaction Documents by the Company and the consummation by the Company of the transactions contemplated hereby and thereby (including, without limitation, the reservation for issuance and issuance of the Purchase Shares and the Commitment Shares) will not (i) result in a violation of the Certificate of Incorporation, any Certificate of Designations, Preferences and Rights of any outstanding series of preferred stock of the Company or the Bylaws or (ii) conflict with, or constitute a default (or an event which with notice or lapse of time or both would become a default) under, or give to others any rights of termination, amendment, acceleration or cancellation of, any agreement, indenture or instrument to which the Company or any of its Subsidiaries is a party, or result in a violation of any law, rule, regulation, order, judgment or decree (including federal and state securities laws and regulations and the rules and regulations of the Principal Market applicable to the Company or any of its Subsidiaries) or by which any property or asset of the Company or any of its Subsidiaries is bound or affected, except in the case of conflicts, defaults, terminations, amendments, accelerations, cancellations and violations under clause (ii), which could not reasonably be expected to result in a Material Adverse Effect. Neither the Company nor its Subsidiaries is in violation of any term of or in default under its Certificate of Incorporation, any Certificate of Designation, Preferences and Rights of any outstanding series of preferred stock of the Company or Bylaws or their organizational charter or bylaws, respectively. Neither the Company nor any of its Subsidiaries is in violation of any term of or is in default under any material contract, agreement, mortgage, indebtedness, indenture, instrument, judgment, decree or order or any statute, rule or regulation applicable to the Company or its Subsidiaries, except for possible conflicts, defaults, terminations or amendments that could not reasonably be expected to have a Material Adverse Effect. The business of the Company and its Subsidiaries is not being conducted, and shall not be conducted, in violation of any law, ordinance or regulation of any governmental entity, except for possible violations, the sanctions for which either individually or in the aggregate could not reasonably be expected to have a Material Adverse Effect. Except as specifically contemplated by this Agreement and as required under the Securities Act or applicable state securities laws and the rules and regulations of the Principal Market, the Company is not required to obtain any consent, authorization or order of, or make any filing or registration with, any court or governmental agency or any regulatory or self-regulatory agency in order for it to execute, deliver or perform any of its obligations under or contemplated by the Transaction Documents in accordance with the terms hereof or thereof. Except as set forth elsewhere in this Agreement, all consents, authorizations, orders, filings and registrations which the Company is required to obtain pursuant to the preceding sentence shall be obtained or effected on or prior to the Commencement Date. Except as disclosed in the SEC Documents (as defined below), since one year prior to the date hereof, the Company has not received nor delivered any notices or correspondence from or to the Principal Market, other than notices with respect to listing of additional shares of Common Stock and other routine correspondence. Except as disclosed in the SEC Documents, the Principal Market has not commenced any delisting proceedings against the Company.

(f) SEC Documents; Financial Statements. The Company has filed all reports, schedules, forms, statements and other documents required to be filed by the Company under the Securities Act and the Exchange Act, including pursuant to Section 13(a) or 15(d) thereof, for the twelve months preceding the date hereof (or such shorter period as the Company was required by law or regulation to file such material) (the foregoing materials, including the exhibits thereto and documents incorporated by reference therein, being collectively referred to herein as the SEC Documents) on a timely basis or has received a valid extension of such time of filing and has filed any such SEC Documents prior to the expiration of any such extension. As of their respective dates, the SEC Documents complied in all material respects with the requirements of the Securities Act and the Exchange Act, as applicable. None of the SEC Documents, when filed, contained any untrue statement of a material fact or omitted to state a material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. The financial statements of the Company included in the SEC Documents comply in

all material respects with applicable accounting requirements and the rules and regulations of the SEC with respect thereto as in effect at the time of filing. Such financial statements have been prepared in accordance with United States generally accepted accounting principles applied on a consistent basis during the periods involved (GAAP), except as may be otherwise specified in such financial statements or the notes thereto and except that unaudited financial statements may not contain all footnotes required by GAAP, and fairly present in all material respects the financial position of the

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Company and its consolidated Subsidiaries as of and for the dates thereof and the results of operations and cash flows for the periods then ended, subject, in the case of unaudited statements, to normal, immaterial, year-end audit adjustments. Except as set forth in the SEC Documents, the Company has received no notices or correspondence from the SEC for the one year preceding the date hereof. The SEC has not commenced any enforcement proceedings against the Company or any of its Subsidiaries.

(g) Absence of Certain Changes. Except as disclosed in the SEC Documents, since December 31, 2017, there has been no material adverse change in the business, properties, operations, financial condition or results of operations of the Company or its Subsidiaries. The Company has not taken any steps, and does not currently expect to take any steps, to seek protection pursuant to any Bankruptcy Law nor does the Company or any of its Subsidiaries have any knowledge or reason to believe that its creditors intend to initiate involuntary bankruptcy or insolvency proceedings. The Company is financially solvent and is generally able to pay its debts as they become due.

(h) Absence of Litigation. There is no action, suit, proceeding, inquiry or investigation before or by any court, public board, government agency, self-regulatory organization or body pending or, to the knowledge of the Company or any of its Subsidiaries, threatened against or affecting the Company, the Common Stock or any of the Company's or its Subsidiaries' officers or directors in their capacities as such, which could reasonably be expected to have a Material Adverse Effect.

(i) Acknowledgment Regarding Investor's Status. The Company acknowledges and agrees that the Investor is acting solely in the capacity of arm's length purchaser with respect to the Transaction Documents and the transactions contemplated hereby and thereby. The Company further acknowledges that the Investor is not acting as a financial advisor or fiduciary of the Company (or in any similar capacity) with respect to the Transaction Documents and the transactions contemplated hereby and thereby and any advice given by the Investor or any of its representatives or agents in connection with the Transaction Documents and the transactions contemplated hereby and thereby is merely incidental to the Investor's purchase of the Securities. The Company further represents to the Investor that the Company's decision to enter into the Transaction Documents has been based solely on the independent evaluation by the Company and its representatives and advisors.

(j) No General Solicitation; No Integrated Offering. Neither the Company, nor any of its affiliates, nor any Person acting on its or their behalf, has engaged in any form of general solicitation or general advertising (within the meaning of Regulation D under the Securities Act) in connection with the offer or sale of the Securities. Neither the Company, nor or any of its affiliates, nor any Person acting on their behalf has, directly or indirectly, made any offers or sales of any security or solicited any offers to buy any security, under circumstances that would require registration of the offer and sale of any of the Securities under the Securities Act, whether through integration with prior offerings or otherwise, or cause this offering of the Securities to be integrated with prior offerings by the Company in a manner that would require stockholder approval pursuant to the rules of the Principal Market on which any of the securities of the Company are listed or designated. The issuance and sale of the Securities hereunder does not contravene the rules and regulations of the Principal Market.

(k) Intellectual Property Rights. The Company and its Subsidiaries own or possess adequate rights or licenses to use all material trademarks, trade names, service marks, service mark registrations, service names, patents, patent rights, copyrights, inventions, licenses, approvals, governmental authorizations, trade secrets and rights necessary to conduct their respective businesses as now conducted. None of the Company's material trademarks, trade names, service marks, service mark registrations, service names, patents, patent rights, copyrights, inventions, licenses, approvals, government authorizations, trade secrets or other intellectual property rights have expired or terminated, or, by the terms and conditions thereof, could expire or terminate within two years from the date of this Agreement. The Company and its Subsidiaries do not have any knowledge of any infringement by the Company or its Subsidiaries of any material trademark, trade name rights, patents, patent rights, copyrights, inventions, licenses, service names,

service marks, service mark registrations, trade secret or other similar rights of others, or of any such development of similar or identical trade secrets or technical information by others, and there is no claim, action or proceeding being made or brought against, or to the Company's knowledge, being threatened against, the Company or its Subsidiaries regarding trademark, trade name, patents, patent rights, invention, copyright, license, service names, service marks, service mark registrations, trade secret or other infringement, which could reasonably be expected to have a Material Adverse Effect.

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(l) Environmental Laws. The Company and its Subsidiaries (i) are in compliance with any and all applicable foreign, federal, state and local laws and regulations relating to the protection of human health and safety, the environment or hazardous or toxic substances or wastes, pollutants or contaminants (Environmental Laws), (ii) have received all permits, licenses or other approvals required of them under applicable Environmental Laws to conduct their respective businesses and (iii) are in compliance with all terms and conditions of any such permit, license or approval, except where, in each of the three foregoing clauses, the failure to so comply could not reasonably be expected to have, individually or in the aggregate, a Material Adverse Effect.

(m) Title. Except as set forth in the SEC Documents, the Company and its Subsidiaries have good and marketable title in fee simple to all real property owned by them and good and marketable title in all personal property owned by them that is material to the business of the Company and its Subsidiaries, in each case free and clear of all liens, encumbrances and defects (Liens) and, except for Liens as do not materially affect the value of such property and do not materially interfere with the use made and proposed to be made of such property by the Company and its Subsidiaries and Liens for the payment of federal, state or other taxes, the payment of which is neither delinquent nor subject to penalties. Any real property and facilities held under lease by the Company and its Subsidiaries are held by them under valid, subsisting and enforceable leases with which the Company and its Subsidiaries are in compliance with such exceptions as are not material and do not interfere with the use made and proposed to be made of such property and buildings by the Company and its Subsidiaries.

(n) Insurance. The Company and each of its Subsidiaries are insured by insurers of recognized financial responsibility against such losses and risks and in such amounts as management of the Company believes to be prudent and customary in the businesses in which the Company and its Subsidiaries are engaged. Neither the Company nor any such Subsidiary has been refused any insurance coverage sought or applied for and neither the Company nor any such Subsidiary has any reason to believe that it will not be able to renew its existing insurance coverage as and when such coverage expires or to obtain similar coverage from similar insurers as may be necessary to continue its business at a cost that would not materially and adversely affect the condition, financial or otherwise, or the earnings, business or operations of the Company and its Subsidiaries, taken as a whole.

(o) Regulatory Permits. The Company and its Subsidiaries possess all material certificates, authorizations and permits issued by the appropriate federal, state or foreign regulatory authorities necessary to conduct their respective businesses, and neither the Company nor any such Subsidiary has received any notice of proceedings relating to the revocation or modification of any such certificate, authorization or permit.

(p) Tax Status. The Company and each of its Subsidiaries has made or filed all federal and state income and all other material tax returns, reports and declarations required by any jurisdiction to which it is subject (unless and only to the extent that the Company and each of its Subsidiaries has set aside on its books provisions reasonably adequate for the payment of all unpaid and unreported taxes) and has paid all taxes and other governmental assessments and charges that are material in amount, shown or determined to be due on such returns, reports and declarations, except those being contested in good faith and has set aside on its books provision reasonably adequate for the payment of all taxes for periods subsequent to the periods to which such returns, reports or declarations apply. There are no unpaid taxes in any material amount claimed to be due by the taxing authority of any jurisdiction, and the officers of the Company know of no basis for any such claim.

(q) Transactions With Affiliates. Except as set forth in the SEC Documents, none of the officers or directors of the Company and, to the knowledge of the Company, none of the employees of the Company is presently a party to any transaction with the Company or any Subsidiary (other than for services as employees, officers and directors), including any contract, agreement or other arrangement providing for the furnishing of services to or by, providing for rental of real or personal property to or from, or otherwise requiring payments to or from any officer, director or such employee or, to the knowledge of the Company, any entity in which any officer, director, or any such employee has a

substantial interest or is an officer, director, trustee or partner, in each case in excess of \$120,000 other than for (i) payment of salary or consulting fees for services rendered, (ii) reimbursement for expenses incurred on behalf of the Company and (iii) other employee benefits, including stock option agreements under any stock option plan of the Company.

(r) Application of Takeover Protections. The Company and its board of directors have taken or will take prior to the Commencement Date all necessary action, if any, in order to render inapplicable any control share

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acquisition, business combination, poison pill (including any distribution under a rights agreement) or other similar anti-takeover provision under the Certificate of Incorporation or the laws of the state of its incorporation which is or could become applicable to the Investor as a result of the transactions contemplated by this Agreement, including, without limitation, the Company's issuance of the Securities and the Investor's ownership of the Securities.

(s) Disclosure. Except with respect to the material terms and conditions of the transactions contemplated by the Transaction Documents that will be timely publicly disclosed by the Company, the Company confirms that neither it nor any other Person acting on its behalf has provided the Investor or its agents or counsel with any information that it believes constitutes or might constitute material, non-public information which is not otherwise disclosed in the Registration Statement or the SEC Documents. The Company understands and confirms that the Investor will rely on the foregoing representation in effecting purchases and sales of securities of the Company. All of the disclosure furnished by or on behalf of the Company to the Investor regarding the Company, its business and the transactions contemplated hereby, including the disclosure schedules to this Agreement, is true and correct and does not contain any untrue statement of a material fact or omit to state any material fact necessary in order to make the statements made therein, in light of the circumstances under which they were made, not misleading. The press releases disseminated by the Company during the twelve months preceding the date of this Agreement taken as a whole do not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made and when made, not misleading. The Company acknowledges and agrees that the Investor neither makes nor has made any representations or warranties with respect to the transactions contemplated hereby other than those specifically set forth in Section 3 hereof.

(t) Foreign Corrupt Practices. Neither the Company, nor to the knowledge of the Company, any agent or other Person acting on behalf of the Company, has (i) directly or indirectly, used any funds for unlawful contributions, gifts, entertainment or other unlawful expenses related to foreign or domestic political activity, (ii) made any unlawful payment to foreign or domestic government officials or employees or to any foreign or domestic political parties or campaigns from corporate funds, (iii) failed to disclose fully any contribution made by the Company (or made by any Person acting on its behalf of which the Company is aware) which is in violation of law, or (iv) violated in any material respect any provision of the Foreign Corrupt Practices Act of 1977, as amended.

(u) DTC Eligibility. The Company, through the Transfer Agent, currently participates in the DTC Fast Automated Securities Transfer (FAST) Program and the Common Stock can be transferred electronically to third parties via the DTC Fast Automated Securities Transfer (FAST) Program.

(v) Sarbanes-Oxley. The Company is in compliance in all material respects with all provisions of the Sarbanes-Oxley Act of 2002, as amended, which are applicable to it as of the date hereof.

(w) Certain Fees. No brokerage or finder's fees or commissions are or will be payable by the Company to any broker, financial advisor or consultant, finder, placement agent, investment banker, bank or other Person with respect to the transactions contemplated by the Transaction Documents. The Investor shall have no obligation with respect to any fees or with respect to any claims made by or on behalf of other Persons for fees of a type contemplated in this Section 4(w) that may be due in connection with the transactions contemplated by the Transaction Documents.

(x) Investment Company. The Company is not, and immediately after receipt of payment for the Securities will not be, an investment company within the meaning of the Investment Company Act of 1940, as amended.

(y) Listing and Maintenance Requirements. The Common Stock is registered pursuant to Section 12(b) of the Exchange Act, and the Company has taken no action designed to, or which to its knowledge is likely to have the effect of, terminating the registration of the Common Stock pursuant to the Exchange Act nor has the Company received any

notification that the SEC is currently contemplating terminating such registration. Except as disclosed in the SEC Documents, the Company has not, in the twelve (12) months preceding the date hereof, received any notice from any Person to the effect that the Company is not in compliance with the listing or maintenance requirements of the Principal Market. Except as disclosed in the SEC Documents, the Company is, and has no reason to believe that it will not in the foreseeable future continue to be, in compliance with all such listing and maintenance requirements.

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(z) Accountants. The Company's accountants are set forth in the SEC Documents and, to the knowledge of the Company, such accountants are an independent registered public accounting firm as required by the Securities Act.

(aa) No Market Manipulation. The Company has not, and to its knowledge no Person acting on its behalf has, (i) taken, directly or indirectly, any action designed to cause or to result in the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of any of the Securities, (ii) sold, bid for, purchased, or, paid any compensation for soliciting purchases of, any of the Securities, or (iii) paid or agreed to pay to any Person any compensation for soliciting another to purchase any other securities of the Company.

(bb) Shell Company Status. The Company is not currently, and has never been, an issuer identified in Rule 144(i)(1) under the Securities Act.

(cc) No Disqualification Events. None of the Company, any of its predecessors, any affiliated issuer, any director, executive officer, other officer of the Company participating in the offering contemplated hereby, any beneficial owner of 20% or more of the Company's outstanding voting equity securities, calculated on the basis of voting power, nor any promoter (as that term is defined in Rule 405 under the Securities Act) connected with the Company in any capacity at the time of sale (each, an Issuer Covered Person) is subject to any of the Bad Actor disqualifications described in Rule 506(d)(1)(i) to (viii) under the Securities Act (a Disqualification Event), except for a Disqualification Event covered by Rule 506(d)(2) or (d)(3) under the Securities Act. The Company has exercised reasonable care to determine whether any Issuer Covered Person is subject to a Disqualification Event.

5. COVENANTS.

(a) Filing of Current Report and Registration Statement. The Company agrees that it shall, within the time required under the Exchange Act, file with the SEC a report on Form 8-K relating to the transactions contemplated by, and describing the material terms and conditions of, the Transaction Documents (the Current Report). The Company shall also file with the SEC, within twenty (20) Business Days from the date hereof, a new registration statement (the Registration Statement) covering only the resale of the Purchase Shares and all of the Commitment Shares, in accordance with the terms of the Registration Rights Agreement between the Company and the Investor, dated as of the date hereof (the Registration Rights Agreement). The Company shall permit the Investor to review and comment upon the final pre-filing draft version of the Current Report at least two (2) Business Days prior to its filing with the SEC, and the Company shall give due consideration to all such comments. The Investor shall use its reasonable best efforts to comment upon the final pre-filing draft version of the Current Report within one (1) Business Day from the date the Investor receives it from the Company.

(b) Blue Sky. The Company shall take all such action, if any, as is reasonably necessary in order to obtain an exemption for or to register or qualify (i) the issuance of the Commitment Shares and the sale of the Purchase Shares to the Investor under this Agreement and (ii) any subsequent resale of all Commitment Shares and all Purchase Shares by the Investor, in each case, under applicable securities or Blue Sky laws of the states of the United States in such states as is reasonably requested by the Investor from time to time, and shall provide evidence of any such action so taken to the Investor.

(c) Listing/DTC. The Company shall promptly secure the listing of all of the Purchase Shares and Commitment Shares to be issued to the Investor hereunder on the Principal Market (subject to official notice of issuance) and upon each other national securities exchange or automated quotation system, if any, upon which the Common Stock is then listed, and shall use commercially reasonable efforts to maintain, so long as any shares of Common Stock shall be so listed, such listing of all such Securities from time to time issuable hereunder. The Company shall use commercially reasonable efforts to maintain the listing of the Common Stock on the Principal Market and shall comply in all respects with the Company's reporting, filing and other obligations under the bylaws or rules and regulations of the Principal Market. Neither the Company nor any of its Subsidiaries shall take any action that would reasonably be

expected to result in the delisting or suspension of the Common Stock on the Principal Market. The Company shall promptly, and in no event later than the following Business Day, provide to the Investor copies of any notices it receives from any Person regarding the continued eligibility of the Common Stock for listing on the Principal Market; provided, however, that the Company shall not be required to provide the Investor copies of any such notice that the Company reasonably believes constitutes material non-public information and the Company would not be required to publicly disclose

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such notice in any report or statement filed with the SEC and under the Exchange Act or the Securities Act. The Company shall pay all fees and expenses in connection with satisfying its obligations under this Section 5(c). The Company shall take all action necessary to ensure that its Common Stock can be transferred electronically as DWAC Shares.

(d) Prohibition of Short Sales and Hedging Transactions. The Investor agrees that beginning on the date of this Agreement and ending on the date of termination of this Agreement as provided in Section 11, the Investor and its agents, representatives and affiliates shall not in any manner whatsoever enter into or effect, directly or indirectly, any (i) short sale (as such term is defined in Rule 200 of Regulation SHO of the Exchange Act) of the Common Stock or (ii) hedging transaction, which establishes a net short position with respect to the Common Stock.

(e) Issuance of Commitment Shares. In consideration for the Investor's execution and delivery of this Agreement, the Company shall cause to be issued to the Investor a total of 600,000 shares of Common Stock (the Commitment Shares) immediately upon the execution of this Agreement and shall deliver to the Transfer Agent the Irrevocable Transfer Agent Instructions with respect to the issuance of such Commitment Shares. For the avoidance of doubt, all of the Commitment Shares shall be fully earned as of the date of this Agreement, whether or not the Commencement shall occur or any Purchase Shares are purchased by the Investor under this Agreement and irrespective of any subsequent termination of this Agreement.

(f) Due Diligence; Non-Public Information. The Investor shall have the right, from time to time as the Investor may reasonably deem appropriate and upon reasonable advance notice to the Company, to perform reasonable due diligence on the Company during normal business hours. The Company and its officers and employees shall provide information and reasonably cooperate with the Investor in connection with any reasonable request by the Investor related to the Investor's due diligence of the Company. Each party hereto agrees not to disclose any Confidential Information of the other party to any third party and shall not use the Confidential Information for any purpose other than in connection with, or in furtherance of, the transactions contemplated hereby. Each party hereto acknowledges that the Confidential Information shall remain the property of the disclosing party and agrees that it shall take all reasonable measures to protect the secrecy of any Confidential Information disclosed by the other party. The Company confirms that neither it nor any other Person acting on its behalf shall provide the Investor or its agents or counsel with any information that constitutes or might constitute material, non-public information, unless a simultaneous public announcement thereof is made by the Company in the manner contemplated by Regulation FD. In the event of a breach of the foregoing covenant by the Company or any Person acting on its behalf (as determined in the reasonable good faith judgment of the Investor), in addition to any other remedy provided herein or in the other Transaction Documents, if the Investor is holding any Securities at the time of the disclosure of material, non-public information, the Investor shall have the right to make a public disclosure, in the form of a press release, public advertisement or otherwise, of such material, non-public information without the prior approval by the Company; provided the Investor shall have first provided notice to the Company that it believes it has received information that constitutes material, non-public information, the Company shall have at least 24 hours to publicly disclose such material, non-public information prior to any such disclosure by the Investor, the Company shall have failed to demonstrate to the Investor in writing within such time period that such information does not constitute material, non-public information, and the Company shall have failed to publicly disclose such material, non-public information within such time period. The Investor shall not have any liability to the Company, any of its Subsidiaries, or any of their respective directors, officers, employees, stockholders or agents, for any such disclosure. The Company understands and confirms that the Investor shall be relying on the foregoing covenants in effecting transactions in securities of the Company.

(g) Purchase Records. The Investor and the Company shall each maintain records showing the remaining Available Amount at any given time and the dates and Purchase Amounts for each Regular Purchase, Accelerated Purchase and Additional Accelerated Purchase or shall use such other method, reasonably satisfactory to the Investor and the

Company.

(h) Taxes. The Company shall pay any and all transfer, stamp or similar taxes that may be payable with respect to the issuance and delivery of any shares of Common Stock to the Investor made under this Agreement.

(i) Use of Proceeds. The Company will use the net proceeds from the offering as described in the Registration Statement or the SEC Documents.

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(j) Other Transactions. The Company shall not enter into, announce or recommend to its stockholders any agreement, plan, arrangement or transaction in or of which the terms thereof would restrict, materially delay, conflict with or impair the ability or right of the Company to perform its obligations under the Transaction Documents, including, without limitation, the obligation of the Company to deliver the Purchase Shares and the Commitment Shares to the Investor in accordance with the terms of the Transaction Documents.

(k) Integration. From and after the date of this Agreement, neither the Company, nor or any of its affiliates will, and the Company shall use its reasonable best efforts to ensure that no Person acting on their behalf will, directly or indirectly, make any offers or sales of any security or solicit any offers to buy any security, under circumstances that would (i) require registration of the offer and sale by the Company to the Investor of any of the Securities under the Securities Act, or (ii) cause this offering of the Securities by the Company to the Investor to be integrated with other offerings by the Company in a manner that would require stockholder approval pursuant to the rules of the Principal Market on which any of the securities of the Company are listed or designated, unless in the case of this clause (ii), stockholder approval is obtained before the closing of such subsequent transaction in accordance with the rules of such Principal Market.

(l) Limitation on Variable Rate Transactions. From and after the date of this Agreement until the later of: (i) the 24-month anniversary of the date of this Agreement and (ii) the 24-month anniversary of the Commencement Date (if the Commencement has occurred), in each case irrespective of any earlier termination of this Agreement, the Company shall be prohibited from effecting or entering into an agreement to effect any issuance by the Company or any of its Subsidiaries of Common Stock or Common Stock Equivalents (or a combination of units thereof) involving a Variable Rate Transaction, other than in connection with an Exempt Issuance. The Investor shall be entitled to seek injunctive relief against the Company and its Subsidiaries to preclude any such issuance, which remedy shall be in addition to any right to collect damages, without the necessity of showing economic loss and without any bond or other security being required. Common Stock Equivalents means any securities of the Company or its Subsidiaries which entitle the holder thereof to acquire at any time Common Stock, including, without limitation, any debt, preferred stock, rights, options, warrants or other instrument that is at any time convertible into or exercisable or exchangeable for, or otherwise entitles the holder thereof to receive, Common Stock. Variable Rate Transaction means a transaction in which the Company (i) issues or sells any equity or debt securities that are convertible into, exchangeable or exercisable for, or include the right to receive additional shares of Common Stock or Common Stock Equivalents either (A) at a conversion price, exercise price, exchange rate or other price that is based upon and/or varies with the trading prices of or quotations for the Common Stock at any time after the initial issuance of such equity or debt securities (including, without limitation, pursuant to any cashless exercise provision), or (B) with a conversion, exercise or exchange price that is subject to being reset at some future date after the initial issuance of such equity or debt security or upon the occurrence of specified or contingent events directly or indirectly related to the business of the Company or the market for the Common Stock (including, without limitation, any full ratchet or weighted average anti-dilution provisions, but not including any standard anti-dilution protection for any reorganization, recapitalization, non-cash dividend, stock split or other similar transaction), (ii) issues or sells any equity or debt securities, including without limitation, Common Stock or Common Stock Equivalents, either (A) at a price that is subject to being reset at some future date after the initial issuance of such debt or equity security or upon the occurrence of specified or contingent events directly or indirectly related to the business of the Company or the market for the Common Stock (other than standard anti-dilution protection for any reorganization, recapitalization, non-cash dividend, stock split or other similar transaction), or (B) that are subject to or contain any put, call, redemption, buy-back, price-reset or other similar provision or mechanism (including, without limitation, a Black-Scholes put or call right) that provides for the issuance of additional equity securities of the Company or the payment of cash by the Company, or (iii) enters into any agreement, including, but not limited to, an equity line of credit or other continuous offering or similar offering of Common Stock or Common Stock Equivalents, whereby the Company may sell Common Stock or Common Stock Equivalents at a future determined price. Exempt Issuance means the issuance of (a) Common Stock, options or other equity incentive awards to employees, officers, directors or

vendors of the Company pursuant to any equity incentive plan duly adopted for such purpose, by the Board of Directors or a majority of the members of a committee of directors established for such purpose, (b) (1) any Securities issued to the Investor pursuant to this Agreement, (2) any securities issued upon the exercise or exchange of or conversion of any shares of Common Stock or Common Stock Equivalents held by the Investor at any time, or (3) any securities issued upon the exercise or exchange of or conversion of any Common Stock Equivalents issued and outstanding on the date

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of this Agreement, provided that such securities referred to in this clause (3) have not been amended since the date of this Agreement to increase the number of such securities or to decrease the exercise price, exchange price or conversion price of such securities, (c) securities issued pursuant to acquisitions, divestitures, licenses, partnerships, collaborations or strategic transactions approved by the Board of Directors or a majority of the members of a committee of directors established for such purpose, which acquisitions, divestitures, licenses, partnerships, collaborations or strategic transactions can have a Variable Rate Transaction component, provided that any such issuance shall only be to a Person (or to the equity holders of a Person) which is, itself or through its subsidiaries, an operating company or an asset in a business synergistic with the business of the Company and shall provide to the Company additional benefits in addition to the investment of funds, but shall not include a transaction in which the Company is issuing securities primarily for the purpose of raising capital or to an entity whose primary business is investing in securities, or (d) Common Stock issued pursuant to an at-the-market offering by the Company exclusively through a registered broker-dealer acting as agent of the Company pursuant to a written agreement between the Company and such registered broker-dealer.

6. TRANSFER AGENT INSTRUCTIONS.

(b) On the date of this Agreement, the Company shall issue irrevocable instructions to the Transfer Agent substantially in the form attached hereto as Exhibit D to issue the Commitment Shares in accordance with the terms of this Agreement (the Irrevocable Transfer Agent Instructions). The certificate(s) or book-entry statement(s) representing the Commitment Shares, except as set forth below, shall bear the following restrictive legend (the Restrictive Legend):

THE SECURITIES REPRESENTED BY THIS CERTIFICATE HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR APPLICABLE STATE SECURITIES LAWS. THE SECURITIES HAVE BEEN ACQUIRED FOR INVESTMENT AND MAY NOT BE OFFERED FOR SALE, SOLD, TRANSFERRED OR ASSIGNED IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT FOR THE SECURITIES UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR APPLICABLE STATE SECURITIES LAWS, UNLESS SOLD PURSUANT TO: (1) RULE 144 UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR (2) AN OPINION OF HOLDER'S COUNSEL, IN A CUSTOMARY FORM, THAT REGISTRATION IS NOT REQUIRED UNDER SAID ACT OR APPLICABLE STATE SECURITIES LAWS.

(c) On the earlier of (i) the Commencement Date and (ii) such time that the Investor shall request, provided all conditions of Rule 144 under the Securities Act are met, the Company shall, no later than one (1) Business Day following the delivery by the Investor to the Company or the Transfer Agent of one or more legended certificates or book-entry statements representing the Commitment Shares (which certificates or book-entry statements the Investor shall promptly deliver on or prior to the first to occur of the events described in clauses (i) and (ii) of this sentence), as directed by the Investor, issue and deliver (or cause to be issued and delivered) to the Investor, as requested by the Investor, either: (A) a certificate or book-entry statement representing such Commitment Shares that is free from all restrictive and other legends or (B) a number of shares of Common Stock equal to the number of Commitment Shares represented by the certificate(s) or book-entry statement(s) so delivered by the Investor as DWAC Shares. The Company shall take all actions to carry out the intent and accomplish the purposes of the immediately preceding sentence, including, without limitation, delivering all such legal opinions, consents, certificates, resolutions and instructions to the Transfer Agent, and any successor transfer agent of the Company, as may be requested from time to time by the Investor or necessary or desirable to carry out the intent and accomplish the purposes of the immediately preceding sentence. On the Commencement Date, the Company shall issue to the Transfer Agent, and any subsequent transfer agent, (i) irrevocable instructions in the form substantially similar to those used by the Investor in substantially similar transactions (the Commencement Irrevocable Transfer Agent Instructions) and (ii) the notice of effectiveness of the Registration Statement in the form attached as an exhibit to the Registration Rights Agreement

(the Notice of Effectiveness of Registration Statement), in each case to issue the Commitment Shares and the Purchase Shares in accordance with the terms of this Agreement and the Registration Rights Agreement. All Purchase Shares to be issued from and after Commencement to or for the benefit of the Investor pursuant to this Agreement shall be issued only as DWAC Shares. The Company represents and warrants to the Investor that, while this Agreement is effective, no instruction other than the Commencement Irrevocable Transfer Agent Instructions and the Notice of Effectiveness of Registration Statement referred to in this Section 6(b) will be given by the Company to the Transfer Agent with respect to the Purchase Shares or the

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Commitment Shares from and after Commencement, and the Purchase Shares and the Commitment Shares covered by the Registration Statement shall otherwise be freely transferable on the books and records of the Company. The Company agrees that if the Company fails to fully comply with the provisions of this Section 6(b) within five (5) Business Days of the Investor providing the deliveries referred to above, the Company shall, at the Investor's written instruction, purchase such shares of Common Stock containing the Restrictive Legend from the Investor at the greater of the (i) purchase price paid for such shares of Common Stock (as applicable) and (ii) the Closing Sale Price of the Common Stock on the date of the Investor's written instruction.

7. CONDITIONS TO THE COMPANY'S RIGHT TO COMMENCE SALES OF SHARES OF COMMON STOCK.

The right of the Company hereunder to commence sales of the Purchase Shares on the Commencement Date is subject to the satisfaction of each of the following conditions:

- (a) The Investor shall have executed each of the Transaction Documents and delivered the same to the Company;
- (b) The Registration Statement covering the resale of the Purchase Shares and all of the Commitment Shares shall have been declared effective under the Securities Act by the SEC, and no stop order with respect to the Registration Statement shall be pending or threatened by the SEC; and
- (c) The representations and warranties of the Investor shall be true and correct in all material respects as of the date hereof and as of the Commencement Date as though made at that time.

8. CONDITIONS TO THE INVESTOR'S OBLIGATION TO PURCHASE SHARES OF COMMON STOCK.

The obligation of the Investor to buy Purchase Shares under this Agreement is subject to the satisfaction of each of the following conditions on or prior to the Commencement Date and, once such conditions have been initially satisfied, there shall not be any ongoing obligation to satisfy such conditions after the Commencement has occurred:

- (a) The Company shall have executed each of the Transaction Documents and delivered the same to the Investor;
- (b) The Company shall have issued or caused to be issued to the Investor (i) one or more certificates or book-entry statements representing the Commitment Shares free from all restrictive and other legends or (ii) a number of shares of Common Stock equal to the number of Commitment Shares as DWAC Shares, in each case in accordance with Section 6(b);
- (c) The Common Stock shall be listed or quoted on the Principal Market, trading in the Common Stock shall not have been within the last 365 days suspended by the SEC or the Principal Market, and all Securities to be issued by the Company to the Investor pursuant to this Agreement shall have been approved for listing or quotation on the Principal Market in accordance with the applicable rules and regulations of the Principal Market, subject only to official notice of issuance;
- (d) The Investor shall have received the opinions of the Company's legal counsel dated as of the Commencement Date substantially in the form heretofore agreed by the parties hereto;
- (e) The representations and warranties of the Company shall be true and correct in all material respects (except to the extent that any of such representations and warranties is already qualified as to materiality in Section 4 above, in which case, the portion of such representations and warranties so qualified shall be true and correct without further qualification) as of the date hereof and as of the Commencement Date as though made at that time (except for representations and warranties that speak as of a specific date, which shall be true and correct as of such date) and the

Company shall have performed, satisfied and complied with the covenants, agreements and conditions required by the Transaction Documents to be performed, satisfied or complied with by the Company at or prior to the Commencement Date. The Investor shall have received a certificate, executed by the CEO, President or CFO of the Company, dated as of the Commencement Date, to the foregoing effect in the form attached hereto as **Exhibit A**;

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(f) The Board of Directors of the Company shall have adopted resolutions in substantially the form attached hereto as **Exhibit B** which shall be in full force and effect without any amendment or supplement thereto as of the Commencement Date;

(g) As of the Commencement Date, the Company shall have reserved out of its authorized and unissued Common Stock, solely for the purpose of effecting purchases of Purchase Shares hereunder, 25,000,000 shares of Common Stock;

(h) The Commencement Irrevocable Transfer Agent Instructions and the Notice of Effectiveness of Registration Statement each shall have been delivered to and acknowledged in writing by the Company and the Company's Transfer Agent (or any successor transfer agent);

(i) The Company shall have delivered to the Investor a certificate evidencing the incorporation and good standing of the Company in the State of Delaware issued by the Secretary of State of the State of Delaware as of a date within ten (10) Business Days of the Commencement Date;

(j) The Company shall have delivered to the Investor a certified copy of the Certificate of Incorporation as certified by the Secretary of State of the State of Delaware within ten (10) Business Days of the Commencement Date;

(k) The Company shall have delivered to the Investor a secretary's certificate executed by the Secretary of the Company, dated as of the Commencement Date, in the form attached hereto as **Exhibit C**;

(l) The Registration Statement covering the resale of the Purchase Shares and all of the Commitment Shares shall have been declared effective under the Securities Act by the SEC, and no stop order with respect to the Registration Statement shall be pending or threatened by the SEC. The Company shall have prepared and filed with the SEC, not later than one (1) Business Day after the effective date of the Registration Statement, a final and complete prospectus (the preliminary form of which shall be included in the Registration Statement) and shall have delivered to the Investor a true and complete copy thereof. Such prospectus shall be current and available for the resale by the Investor of all of the Securities covered thereby. The Current Report shall have been filed with the SEC, as required pursuant to **Section 5(a)**. All reports, schedules, registrations, forms, statements, information and other documents required to have been filed by the Company with the SEC at or prior to the Commencement Date pursuant to the reporting requirements of the Exchange Act shall have been filed with the SEC within the applicable time periods prescribed for such filings under the Exchange Act;

(m) No Event of Default has occurred, or any event which, after notice and/or lapse of time, would become an Event of Default has occurred;

(n) All federal, state and local governmental laws, rules and regulations applicable to the transactions contemplated by the Transaction Documents and necessary for the execution, delivery and performance of the Transaction Documents and the consummation of the transactions contemplated thereby in accordance with the terms thereof shall have been complied with, and all consents, authorizations and orders of, and all filings and registrations with, all federal, state and local courts or governmental agencies and all federal, state and local regulatory or self-regulatory agencies necessary for the execution, delivery and performance of the Transaction Documents and the consummation of the transactions contemplated thereby in accordance with the terms thereof shall have been obtained or made, including, without limitation, in each case those required under the Securities Act, the Exchange Act, applicable state securities or Blue Sky laws or applicable rules and regulations of the Principal Market, or otherwise required by the SEC, the Principal Market or any state securities regulators;

(o) No statute, regulation, order, decree, writ, ruling or injunction shall have been enacted, entered, promulgated, threatened or endorsed by any federal, state, local or foreign court or governmental authority of competent jurisdiction which prohibits the consummation of or which would materially modify or delay any of the transactions contemplated by the Transaction Documents; and

(p) No action, suit or proceeding before any federal, state, local or foreign arbitrator or any court or governmental authority of competent jurisdiction shall have been commenced or threatened, and no inquiry or investigation by any federal, state, local or foreign governmental authority of competent jurisdiction shall have been commenced or threatened, against the Company, or any of the officers, directors or affiliates of the Company, seeking to restrain, prevent or change the transactions contemplated by the Transaction Documents, or seeking material damages in connection with such transactions.

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9. INDEMNIFICATION.

In consideration of the Investor's execution and delivery of the Transaction Documents and acquiring the Securities hereunder and in addition to all of the Company's other obligations under the Transaction Documents, the Company shall defend, protect, indemnify and hold harmless the Investor and all of its affiliates, stockholders, members, officers, directors, employees and direct or indirect investors and any of the foregoing Person's agents or other representatives (including, without limitation, those retained in connection with the transactions contemplated by this Agreement) (collectively, the Indemnitees) from and against any and all actions, causes of action, suits, claims, losses, costs, penalties, fees, liabilities and damages, and expenses in connection therewith (irrespective of whether any such Indemnatee is a party to the action for which indemnification hereunder is sought), and including reasonable attorneys fees and disbursements (the Indemnified Liabilities), incurred by any Indemnatee as a result of, or arising out of, or relating to (a) any misrepresentation or breach of any representation or warranty made by the Company in the Transaction Documents or any other certificate, instrument or document contemplated hereby or thereby, (b) any breach of any covenant, agreement or obligation of the Company contained in the Transaction Documents or any other certificate, instrument or document contemplated hereby or thereby, or (c) any cause of action, suit or claim brought or made against such Indemnatee and arising out of or resulting from the execution, delivery, performance or enforcement of the Transaction Documents or any other certificate, instrument or document contemplated hereby or thereby, other than, in the case of clause (c), with respect to Indemnified Liabilities which directly and primarily result from the fraud, gross negligence or willful misconduct of an Indemnatee. The indemnity in this Section 9 shall not apply to amounts paid in settlement of any claim if such settlement is effected without the prior written consent of the Company, which consent shall not be unreasonably withheld, conditioned or delayed. To the extent that the foregoing undertaking by the Company may be unenforceable for any reason, the Company shall make the maximum contribution to the payment and satisfaction of each of the Indemnified Liabilities which is permissible under applicable law. Payment under this indemnification shall be made within thirty (30) days from the date Investor makes written request for it. A certificate containing reasonable detail as to the amount of such indemnification submitted to the Company by Investor shall be conclusive evidence, absent manifest error, of the amount due from the Company to Investor. If any action shall be brought against any Indemnatee in respect of which indemnity may be sought pursuant to this Agreement, such Indemnatee shall promptly notify the Company in writing, and the Company shall have the right to assume the defense thereof with counsel of its own choosing reasonably acceptable to the Indemnatee. Any Indemnatee shall have the right to employ separate counsel in any such action and participate in the defense thereof, but the fees and expenses of such counsel shall be at the expense of such Indemnatee, except to the extent that (i) the employment thereof has been specifically authorized by the Company in writing, (ii) the Company has failed after a reasonable period of time to assume such defense and to employ counsel or (iii) in such action there is, in the reasonable opinion of such separate counsel, a material conflict on any material issue between the position of the Company and the position of such Indemnatee, in which case the Company shall be responsible for the reasonable fees and expenses of no more than one such separate counsel.

10. EVENTS OF DEFAULT.

An Event of Default shall be deemed to have occurred at any time as any of the following events occurs:

- (a) the effectiveness of a registration statement registering the resale of the Securities lapses for any reason (including, without limitation, the issuance of a stop order or similar order) or such registration statement (or the prospectus forming a part thereof) is unavailable to the Investor for resale of any or all of the Securities to be issued to the Investor under the Transaction Documents, and such lapse or unavailability continues for a period of ten (10) consecutive Business Days or for more than an aggregate of thirty (30) Business Days in any 365-day period, but excluding a lapse or unavailability where (i) the Company terminates a registration statement after the Investor has confirmed in writing that all of the Securities covered thereby have been resold or (ii) the Company supersedes one registration statement with another registration statement, including (without limitation) by terminating a prior registration statement when it is effectively replaced with a new registration statement covering Securities (provided in the case of this clause (ii) that all of the Securities covered by the superseded (or terminated) registration statement

that have not theretofore been resold are included in the superseding (or new) registration statement);

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- (b) the suspension of the Common Stock from trading on the Principal Market for a period of one (1) Business Day, provided that the Company may not direct the Investor to purchase any shares of Common Stock during any such suspension;
- (c) the delisting of the Common Stock from The Nasdaq Capital Market, provided, however, that the Common Stock is not immediately thereafter trading on the New York Stock Exchange, The Nasdaq Global Market, The Nasdaq Global Select Market, the NYSE American, the NYSE Arca, the OTC Bulletin Board or OTC Markets (or nationally recognized successor to any of the foregoing);
- (d) the failure for any reason by the Transfer Agent to issue Purchase Shares to the Investor within two (2) Business Days after the Purchase Date, Accelerated Purchase Date or Additional Accelerated Purchase Date, as applicable, on which the Investor is entitled to receive such Purchase Shares;
- (e) the Company breaches any representation, warranty, covenant or other term or condition under any Transaction Document if such breach would reasonably be expected to have a Material Adverse Effect and except, in the case of a breach of a covenant which is reasonably curable, only if such breach continues for a period of at least five (5) Business Days;
- (f) if any Person commences a proceeding against the Company pursuant to or within the meaning of any Bankruptcy Law;
- (g) if the Company, pursuant to or within the meaning of any Bankruptcy Law, (i) commences a voluntary case, (ii) consents to the entry of an order for relief against it in an involuntary case, (iii) consents to the appointment of a Custodian of it or for all or substantially all of its property, or (iv) makes a general assignment for the benefit of its creditors or is generally unable to pay its debts as the same become due;
- (h) a court of competent jurisdiction enters an order or decree under any Bankruptcy Law that (i) is for relief against the Company in an involuntary case, (ii) appoints a Custodian of the Company or for all or substantially all of its property, or (iii) orders the liquidation of the Company or any Subsidiary;
- (i) if at any time the Company is not eligible to transfer its Common Stock electronically as DWAC Shares; or
- (j) if at any time after the Commencement Date, the Exchange Cap is reached (to the extent such Exchange Cap is applicable pursuant to Section 2(e) hereof).

In addition to any other rights and remedies under applicable law and this Agreement, so long as an Event of Default has occurred and is continuing, or if any event that, after notice and/or lapse of time, would reasonably be expected to become an Event of Default, has occurred and is continuing, the Company shall not deliver to the Investor any Regular Purchase Notice, Accelerated Purchase Notice or Additional Accelerated Purchase Notice.

11. TERMINATION

This Agreement may be terminated only as follows:

- (a) If pursuant to or within the meaning of any Bankruptcy Law, the Company commences a voluntary case or any Person commences a proceeding against the Company, a Custodian is appointed for the Company or for all or substantially all of its property, or the Company makes a general assignment for the benefit of its creditors (any of which would be an Event of Default as described in Sections 10(f), 10(g) and 10(h) hereof), this Agreement shall automatically terminate without any liability or payment to the Company (except as set forth below) without further action or notice by any Person.

(b) In the event that (i) the Company fails to file the Registration Statement with the SEC within the period specified in Section 5(a) hereof in accordance with the terms of the Registration Rights Agreement or (ii) the Commencement shall not have occurred on or before December 31, 2018, due to the failure to satisfy the conditions set forth in Sections 7 and 8 above with respect to the Commencement, then, in the case of clause (i) above, this Agreement may be terminated by the Investor at any time prior to the filing of the Registration Statement and, in the case of clause (ii) above, this Agreement may be terminated by either party at the close of business on December 31, 2018 or thereafter, in each case without liability of such party to the other party (except as set forth below); provided, however, that the right to terminate this Agreement under this Section 11(b) shall not be available to any party if such party is then in breach of any covenant or agreement

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contained in this Agreement or any representation or warranty of such party contained in this Agreement fails to be true and correct such that the conditions set forth in Section 7(c) or Section 8(e), as applicable, could not then be satisfied.

(c) At any time after the Commencement Date, the Company shall have the option to terminate this Agreement for any reason or for no reason by delivering notice (a Company Termination Notice) to the Investor electing to terminate this Agreement without any liability whatsoever of any party to any other party under this Agreement (except as set forth below). The Company Termination Notice shall not be effective until one (1) Business Day after it has been received by the Investor.

(d) This Agreement shall automatically terminate on the date that the Company sells and the Investor purchases the full Available Amount as provided herein, without any action or notice on the part of any party and without any liability whatsoever of any party to any other party under this Agreement (except as set forth below).

(e) If, for any reason or for no reason, the full Available Amount has not been purchased in accordance with Section 2 of this Agreement by the Maturity Date, this Agreement shall automatically terminate on the Maturity Date, without any action or notice on the part of any party and without any liability whatsoever of any party to any other party under this Agreement (except as set forth below).

Except as set forth in Sections 11(a) (in respect of an Event of Default under Sections 10(f), 10(g) and 10(h)), 11(d) and 11(e), any termination of this Agreement pursuant to this Section 11 shall be effected by written notice from the Company to the Investor, or the Investor to the Company, as the case may be, setting forth the basis for the termination hereof. The representations and warranties and covenants of the Company and the Investor contained in Sections 3, 4, 5, and 6 hereof, the indemnification provisions set forth in Section 9 hereof and the agreements and covenants set forth in Sections 10, 11 and 12 shall survive the execution and delivery of this Agreement and any termination of this Agreement. No termination of this Agreement shall (i) affect the Company's or the Investor's rights or obligations under (A) this Agreement with respect to pending Regular Purchases, Accelerated Purchases and Additional Accelerated Purchases and the Company and the Investor shall complete their respective obligations with respect to any pending Regular Purchases, Accelerated Purchases and Additional Accelerated Purchases under this Agreement and (B) the Registration Rights Agreement, which shall survive any such termination, or (ii) be deemed to release the Company or the Investor from any liability for intentional misrepresentation or willful breach of any of the Transaction Documents.

12. MISCELLANEOUS.

(a) Governing Law; Jurisdiction; Jury Trial. The corporate laws of the State of Delaware shall govern all issues concerning the relative rights of the Company and its stockholders. All other questions concerning the construction, validity, enforcement and interpretation of this Agreement, the Registration Rights Agreement and the other Transaction Documents shall be governed by the internal laws of the State of Illinois, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of Illinois or any other jurisdictions) that would cause the application of the laws of any jurisdictions other than the State of Illinois. Each party hereby irrevocably submits to the exclusive jurisdiction of the state and federal courts sitting in the State of Illinois, County of Cook, for the adjudication of any dispute hereunder or under the other Transaction Documents or in connection herewith or therewith, or with any transaction contemplated hereby or discussed herein, and hereby irrevocably waives, and agrees not to assert in any suit, action or proceeding, any claim that it is not personally subject to the jurisdiction of any such court, that such suit, action or proceeding is brought in an inconvenient forum or that the venue of such suit, action or proceeding is improper. Each party hereby irrevocably waives personal service of process and consents to process being served in any such suit, action or proceeding by mailing a copy thereof to such party at the address for such notices to it under this Agreement and agrees that such service shall constitute good and sufficient service of process and notice thereof. Nothing contained herein shall be deemed to limit in any way any right to serve process in any

manner permitted by law. **EACH PARTY HEREBY IRREVOCABLY WAIVES ANY RIGHT IT MAY HAVE, AND AGREES NOT TO REQUEST, A JURY TRIAL FOR THE ADJUDICATION OF ANY DISPUTE HEREUNDER OR IN CONNECTION HERewith OR ARISING OUT OF THIS AGREEMENT OR ANY TRANSACTION CONTEMPLATED HEREBY.**

(b) Counterparts. This Agreement may be executed in two or more identical counterparts, all of which shall be considered one and the same agreement and shall become effective when counterparts have been signed by each party and delivered to the other party; provided that a facsimile signature or signature delivered by

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e-mail in a .pdf format data file shall be considered due execution and shall be binding upon the signatory thereto with the same force and effect as if the signature were an original signature.

(c) Headings. The headings of this Agreement are for convenience of reference and shall not form part of, or affect the interpretation of, this Agreement.

(d) Severability. If any provision of this Agreement shall be invalid or unenforceable in any jurisdiction, such invalidity or unenforceability shall not affect the validity or enforceability of the remainder of this Agreement in that jurisdiction or the validity or enforceability of any provision of this Agreement in any other jurisdiction.

(e) Entire Agreement. The Transaction Documents supersede all other prior oral or written agreements between the Investor, the Company, their affiliates and Persons acting on their behalf with respect to the subject matter thereof, and this Agreement, the other Transaction Documents and the instruments referenced herein contain the entire understanding of the parties with respect to the matters covered herein and therein and, except as specifically set forth herein or therein, neither the Company nor the Investor makes any representation, warranty, covenant or undertaking with respect to such matters. The Company acknowledges and agrees that it has not relied on, in any manner whatsoever, any representations or statements, written or oral, other than as expressly set forth in the Transaction Documents.

(f) Notices. Any notices, consents or other communications required or permitted to be given under the terms of this Agreement must be in writing and will be deemed to have been delivered: (i) upon receipt when delivered personally; (ii) upon receipt when sent by facsimile or email (provided confirmation of transmission is mechanically or electronically generated and kept on file by the sending party); or (iii) one Business Day after deposit with a nationally recognized overnight delivery service, in each case properly addressed to the party to receive the same. The addresses for such communications shall be:

If to the Company:

Precipio, Inc.
4 Science Park
New Haven, CT 06511
Telephone: 203-787-7888
E-mail: ciberger@precipiodx.com
Attention: Carl Iberger

With a copy to (which shall not constitute notice or service of process):

Goodwin Procter LLP
620 Eighth Avenue
New York, New York 10018
Telephone: 212-813-8800
Facsimile: 212-355-3333
E-mail: sdavis@goodwinlaw.com
Attention: Stephen M. Davis, Esq.

If to the Investor:

Lincoln Park Capital Fund, LLC
440 North Wells, Suite 410

Chicago, IL 60654

Telephone: 312-822-9300

Facsimile: 312-822-9301

E-mail: jscheinfeld@lpcfunds.com/jcope@lpcfunds.com

Attention: Josh Scheinfeld/Jonathan Cope

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With a copy to (which shall not constitute notice or service of process):

Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.

666 Third Avenue

New York, NY 10017

Telephone: (212) 692-6267

Facsimile: (212) 983-3115

E-mail: ajmarsico@mintz.com

Attention: Anthony J. Marsico, Esq.

If to the Transfer Agent:

EQ Shareowner Services

1110 Centre Pointe Curve, Suite 101

Mendota Heights, MN 55120

Telephone: 855-217-6361

E-mail: WFSSRelationshipManagement@eg-us.com

or at such other address and/or facsimile number and/or to the attention of such other Person as the recipient party has specified by written notice given to each other party three (3) Business Days prior to the effectiveness of such change. Written confirmation of receipt (A) given by the recipient of such notice, consent or other communication, (B) mechanically or electronically generated by the sender's facsimile machine or email account containing the time, date, and recipient facsimile number or email address, as applicable, and an image of the first page of such transmission or (C) provided by a nationally recognized overnight delivery service, shall be rebuttable evidence of personal service, receipt by facsimile or receipt from a nationally recognized overnight delivery service in accordance with clause (i), (ii) or (iii) above, respectively.

(g) Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties and their respective successors and assigns. The Company shall not assign this Agreement or any rights or obligations hereunder without the prior written consent of the Investor, including by merger or consolidation. The Investor may not assign its rights or obligations under this Agreement.

(h) No Third Party Beneficiaries. This Agreement is intended for the benefit of the parties hereto and their respective permitted successors and assigns and, except as set forth in Section 9, is not for the benefit of, nor may any provision hereof be enforced by, any other Person.

(i) Publicity. The Company shall afford the Investor and its counsel with the opportunity to review and comment upon, shall consult with the Investor and its counsel on the form and substance of, and shall give due consideration to all such comments from the Investor or its counsel on, any press release, SEC filing or any other public disclosure by or on behalf of the Company relating to the Investor, its purchases hereunder or any aspect of the Transaction Documents or the transactions contemplated thereby, not less than 24 hours prior to the issuance, filing or public disclosure thereof. The Investor must be provided with a final version of any such press release, SEC filing or other public disclosure at least 24 hours prior to any release, filing or use by the Company thereof. The Company agrees and acknowledges that its failure to fully comply with this provision constitutes a Material Adverse Effect.

(j) Further Assurances. Each party shall do and perform, or cause to be done and performed, all such further acts and things, and shall execute and deliver all such other agreements, certificates, instruments and documents, as the other party may reasonably request in order to consummate and make effective, as soon as reasonably possible, the Commencement, and to carry out the intent and accomplish the purposes of this Agreement and the consummation of

the transactions contemplated hereby.

(k) No Financial Advisor, Placement Agent, Broker or Finder. The Company represents and warrants to the Investor that it has not engaged any financial advisor, placement agent, broker or finder in connection with the transactions contemplated hereby. The Investor represents and warrants to the Company that it has not engaged any financial advisor, placement agent, broker or finder in connection with the transactions contemplated hereby. The Company shall be responsible for the payment of any fees or commissions, if any, of any financial advisor,

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placement agent, broker or finder relating to or arising out of the transactions contemplated hereby. The Company shall pay, and hold the Investor harmless against, any liability, loss or expense (including, without limitation, reasonable attorneys' fees and out of pocket expenses) arising in connection with any such claim.

(l) No Strict Construction. The language used in this Agreement will be deemed to be the language chosen by the parties to express their mutual intent, and no rules of strict construction will be applied against any party.

(m) Remedies, Other Obligations, Breaches and Injunctive Relief. The Investor's remedies provided in this Agreement, including, without limitation, the Investor's remedies provided in Section 9, shall be cumulative and in addition to all other remedies available to the Investor under this Agreement, at law or in equity (including a decree of specific performance and/or other injunctive relief), no remedy of the Investor contained herein shall be deemed a waiver of compliance with the provisions giving rise to such remedy and nothing herein shall limit the Investor's right to pursue actual damages for any failure by the Company to comply with the terms of this Agreement. The Company acknowledges that a breach by it of its obligations hereunder will cause irreparable harm to the Investor and that the remedy at law for any such breach may be inadequate. The Company therefore agrees that, in the event of any such breach or threatened breach, the Investor shall be entitled, in addition to all other available remedies, to an injunction restraining any breach, without the necessity of showing economic loss and without any bond or other security being required.

(n) Enforcement Costs. If: (i) this Agreement is placed by the Investor in the hands of an attorney for enforcement or is enforced by the Investor through any legal proceeding; (ii) an attorney is retained to represent the Investor in any bankruptcy, reorganization, receivership or other proceedings affecting creditors' rights and involving a claim under this Agreement; or (iii) an attorney is retained to represent the Investor in any other proceedings whatsoever in connection with this Agreement, then the Company shall pay to the Investor, as incurred by the Investor, all reasonable costs and expenses including reasonable attorneys' fees incurred in connection therewith, in addition to all other amounts due hereunder.

(o) Amendment and Waiver; Failure or Indulgence Not Waiver. No provision of this Agreement may be amended or waived by the parties from and after the date that is one (1) Business Day immediately preceding the initial filing of the Registration Statement with the SEC. Subject to the immediately preceding sentence, (i) no provision of this Agreement may be amended other than by a written instrument signed by both parties hereto and (ii) no provision of this Agreement may be waived other than in a written instrument signed by the party against whom enforcement of such waiver is sought. No failure or delay in the exercise of any power, right or privilege hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any such power, right or privilege preclude other or further exercise thereof or of any other right, power or privilege.

* * * * *

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IN WITNESS WHEREOF, the Investor and the Company have caused this Agreement to be duly executed as of the date first written above.

THE COMPANY:

PRECIPIO, INC.

By: /s/ Ilan Danieli

Name: Ilan Danieli

Title: CEO

INVESTOR:

LINCOLN PARK CAPITAL FUND, LLC

BY: LINCOLN PARK CAPITAL, LLC

BY: ROCKLEDGE CAPITAL CORPORATION

By: /s/ Josh Scheinfeld

Name: Josh Scheinfeld

Title: President

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EXHIBITS

Exhibit A	Form of Officer's Certificate
Exhibit B	Form of Resolutions of Board of Directors of the Company
Exhibit C	Form of Secretary's Certificate
Exhibit D	Form of Letter to Transfer Agent

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EXHIBIT A

FORM OF OFFICER'S CERTIFICATE

This Officer's Certificate (**Certificate**) is being delivered pursuant to Section 8(e) of that certain Purchase Agreement dated as of September 7, 2018, (**Purchase Agreement**), by and between **PRECIPIO, INC.**, a Delaware corporation (the **Company**), and **LINCOLN PARK CAPITAL FUND, LLC** (the **Investor**). Terms used herein and not otherwise defined shall have the meanings ascribed to them in the Purchase Agreement.

The undersigned, _____, _____ of the Company, hereby certifies, on behalf of the Company and not in his individual capacity, as follows:

1. I am the _____ of the Company and make the statements contained in this Certificate;
The representations and warranties of the Company are true and correct in all material respects (except to the extent that any of such representations and warranties is already qualified as to materiality in Section 4 of the Purchase Agreement, in which case, such representations and warranties are true and correct without further qualification) as of the date when made and as of the Commencement Date as though made at that time (except for representations and warranties that speak as of a specific date, in which case such representations and warranties are true and correct as of such date);
2. The Company has performed, satisfied and complied in all material respects with covenants, agreements and conditions required by the Transaction Documents to be performed, satisfied or complied with by the Company at or prior to the Commencement Date.
The Company has not taken any steps, and does not currently expect to take any steps, to seek protection pursuant to any Bankruptcy Law nor does the Company or any of its Subsidiaries have any knowledge or reason to believe that its creditors intend to initiate involuntary bankruptcy or insolvency proceedings. The Company is financially solvent and is generally able to pay its debts as they become due.
3. IN WITNESS WHEREOF, I have hereunder signed my name on this ____ day of _____.
- 4.

Name:

Title:

The undersigned as Secretary of **PRECIPIO, INC.**, a Delaware corporation, hereby certifies that _____ is the duly elected, appointed, qualified and acting _____ of _____ and that the signature appearing above is his genuine signature.

Secretary

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EXHIBIT B

**FORM OF COMPANY RESOLUTIONS
FOR SIGNING PURCHASE AGREEMENT**

**UNANIMOUS WRITTEN CONSENT OF
PRECIPIO, INC.**

In accordance with the corporate laws of the state of Delaware, the undersigned, being all of the directors of **PRECIPIO, INC.**, a Delaware corporation (the Corporation) do hereby consent to and adopt the following resolutions as the action of the Board of Directors for and on behalf of the Corporation and hereby direct that this Consent be filed with the minutes of the proceedings of the Board of Directors:

WHEREAS, there has been presented to the Board of Directors of the Corporation a draft of the Purchase Agreement (the Purchase Agreement) by and between the Corporation and Lincoln Park Capital Fund, LLC (Lincoln Park), providing for the purchase by Lincoln Park of up to Ten Million Dollars (\$10,000,000) of the Corporation's common stock, \$0.01 par value per share (the Common Stock); and

WHEREAS, after careful consideration of the Purchase Agreement, the documents incident thereto and other factors deemed relevant by the Board of Directors, the Board of Directors has determined that it is advisable and in the best interests of the Corporation to engage in the transactions contemplated by the Purchase Agreement, including, but not limited to, the issuance of 600,000 shares of Common Stock to Lincoln Park as a commitment fee (the Commitment Shares) and the sale of shares of Common Stock to Lincoln Park up to the available amount under the Purchase Agreement (the Purchase Shares).

Transaction Documents

NOW, THEREFORE, BE IT RESOLVED, that the transactions described in the Purchase Agreement are hereby approved and _____ (the Authorized Officers) are severally authorized to execute and deliver the Purchase Agreement, and any other agreements or documents contemplated thereby including, without limitation, a registration rights agreement (the Registration Rights Agreement) providing for the registration of the shares of the Company's Common Stock issuable in respect of the Purchase Agreement on behalf of the Corporation, with such amendments, changes, additions and deletions as the Authorized Officers may deem to be appropriate and approve on behalf of, the Corporation, such approval to be conclusively evidenced by the signature of an Authorized Officer thereon; and

FURTHER RESOLVED, that the terms and provisions of the Registration Rights Agreement by and among the Corporation and Lincoln Park are hereby approved and the Authorized Officers are authorized to execute and deliver the Registration Rights Agreement (pursuant to the terms of the Purchase Agreement), with such amendments, changes, additions and deletions as the Authorized Officer may deem appropriate and approve on behalf of, the Corporation, such approval to be conclusively evidenced by the signature of an Authorized Officer thereon; and

FURTHER RESOLVED, that the terms and provisions of the forms of Irrevocable Transfer Agent Instructions and Notice of Effectiveness of Registration Statement (collectively, the Instructions) are hereby approved and the Authorized Officers are authorized to execute and deliver the Instructions on behalf of the Company in accordance with the Purchase Agreement, with such amendments, changes, additions and deletions as the Authorized Officers may deem appropriate and approve on behalf of, the Corporation, such approval to be conclusively evidenced by the signature of an Authorized Officer thereon; and

Execution of Purchase Agreement

FURTHER RESOLVED, that the Corporation be and it hereby is authorized to execute the Purchase Agreement providing for the purchase of up to Ten Million Dollars (\$10,000,000) of the Corporation's common stock; and

Issuance of Common Stock

FURTHER RESOLVED, that the Corporation is hereby authorized to issue to Lincoln Park Capital Fund, LLC, 600,000 shares of Common Stock as Commitment Shares and that upon issuance of the Commitment Shares pursuant to the Purchase Agreement the Commitment Shares shall be duly authorized, validly issued, fully paid and nonassessable with no personal liability attaching to the ownership thereof; and

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FURTHER RESOLVED, that the Corporation is hereby authorized to issue shares of Common Stock upon the purchase of Purchase Shares up to the Available Amount under the Purchase Agreement in accordance with the terms of the Purchase Agreement and that, upon issuance of the Purchase Shares pursuant to the Purchase Agreement, the Purchase Shares will be duly authorized, validly issued, fully paid and nonassessable with no personal liability attaching to the ownership thereof; and

FURTHER RESOLVED, that the Corporation shall initially reserve 25,000,000 shares of Common Stock for issuance as Purchase Shares under the Purchase Agreement.

Approval of Actions

FURTHER RESOLVED, that, without limiting the foregoing, the Authorized Officers are, and each of them hereby is, authorized and directed to proceed on behalf of the Corporation and to take all such steps as deemed necessary or appropriate, with the advice and assistance of counsel, to cause the Corporation to consummate the agreements referred to herein and to perform its obligations under such agreements; and

FURTHER RESOLVED, that the Authorized Officers be, and each of them hereby is, authorized, empowered and directed on behalf of and in the name of the Corporation, to take or cause to be taken all such further actions and to execute and deliver or cause to be executed and delivered all such further agreements, amendments, documents, certificates, reports, schedules, applications, notices, letters and undertakings and to incur and pay all such fees and expenses as in their judgment shall be necessary, proper or desirable to carry into effect the purpose and intent of any and all of the foregoing resolutions, and that all actions heretofore taken by any officer or director of the Corporation in connection with the transactions contemplated by the agreements described herein are hereby approved, ratified and confirmed in all respects.

IN WITNESS WHEREOF, the Board of Directors has executed and delivered this Consent effective as of _____, 2018.

being all of the directors of **PRECIPIO, INC.**

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EXHIBIT C

FORM OF SECRETARY'S CERTIFICATE

This Secretary's Certificate (Certificate) is being delivered pursuant to Section 8(k) of that certain Purchase Agreement dated as of September 7, 2018 (Purchase Agreement), by and between **PRECIPIO, INC.**, a Delaware corporation (the Company) and **LINCOLN PARK CAPITAL FUND, LLC** (the Investor), pursuant to which the Company may sell to the Investor up to Ten Million Dollars (\$10,000,000) of the Company's Common Stock, \$0.01 par value per share (the Common Stock). Terms used herein and not otherwise defined shall have the meanings ascribed to them in the Purchase Agreement.

The undersigned, _____, Secretary of the Company, hereby certifies, on behalf of the Company and not in his individual capacity, as follows:

1. I am the Secretary of the Company and make the statements contained in this Secretary's Certificate. Attached hereto as Exhibit A and Exhibit B are true, correct and complete copies of the Company's bylaws (Bylaws) and Certificate of Incorporation (Charter), in each case, as amended through the date hereof, and no action has been taken by the Company, its directors, officers or stockholders, in contemplation of the filing of any further amendment relating to or affecting the Bylaws or Charter.
2. Attached hereto as Exhibit C are true, correct and complete copies of the resolutions duly adopted by the Board of Directors of the Company on _____, at which a quorum was present and acting throughout. Such resolutions have not been amended, modified or rescinded and remain in full force and effect and such resolutions are the only resolutions adopted by the Company's Board of Directors, or any committee thereof, or the stockholders of the Company relating to or affecting (i) the entering into and performance of the Purchase Agreement, or the issuance, offering and sale of the Purchase Shares and the Commitment Shares and (ii) and the performance of the Company of its obligation under the Transaction Documents as contemplated therein.
3. As of the date hereof, the authorized, issued and reserved capital stock of the Company is as set forth on Exhibit D hereto.
- 4.

IN WITNESS WHEREOF, I have hereunder signed my name on this ____ day of _____.

Secretary

The undersigned as _____ of **PRECIPIO, INC.**, a Delaware corporation, hereby certifies that _____ is the duly elected, appointed, qualified and acting Secretary of _____, and that the signature appearing above is his genuine signature.

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EXHIBIT D

**FORM OF LETTER TO THE TRANSFER AGENT FOR THE ISSUANCE OF THE
COMMITMENT SHARES AT SIGNING OF THE PURCHASE AGREEMENT**

[COMPANY LETTERHEAD]

[DATE]

[TRANSFER AGENT]

Re: Issuance of Common Stock to Lincoln Park Capital Fund, LLC

Dear _____,

On behalf of **PRECIPIO, INC.**, (the Company), you are hereby instructed to issue as soon as possible a book-entry statement representing an aggregate of 600,000 shares of our common stock in the name of **Lincoln Park Capital Fund, LLC**. The book-entry statement should be dated September 7, 2018. The book-entry statement should bear the following restrictive legend:

THE SECURITIES REPRESENTED BY THIS CERTIFICATE HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR APPLICABLE STATE SECURITIES LAWS. THE SECURITIES HAVE BEEN ACQUIRED FOR INVESTMENT AND MAY NOT BE OFFERED FOR SALE, SOLD, TRANSFERRED OR ASSIGNED IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT FOR THE SECURITIES UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR APPLICABLE STATE SECURITIES LAWS, UNLESS SOLD PURSUANT TO: (1) RULE 144 UNDER THE SECURITIES ACT OF 1933, AS AMENDED, OR (2) AN OPINION OF HOLDER'S COUNSEL, IN A CUSTOMARY FORM, THAT REGISTRATION IS NOT REQUIRED UNDER SAID ACT OR APPLICABLE STATE SECURITIES LAWS.

The book-entry statement should be sent as soon as possible via overnight mail to the following address:

Lincoln Park Capital Fund, LLC
440 North Wells, Suite 410
Chicago, IL 60654
Attention: Josh Scheinfeld/Jonathan Cope

Thank you very much for your help. Please call me at _____ if you have any questions or need anything further.

PRECIPIO, INC.

BY:

[name]

[title]

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