

BIOCRYST PHARMACEUTICALS INC  
Form PRE 14A  
September 18, 2018

**UNITED STATES**

**SECURITIES AND EXCHANGE COMMISSION**

**Washington, D.C. 20549**

**SCHEDULE 14A**

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 Pursuant to §240.14a-12

**BIOCRYST PHARMACEUTICALS, INC.**

(Name of Registrant as Specified In Its Charter)

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

Payment of Filing Fee (Check the appropriate box):

No fee required.

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

Title of each class of securities to which transaction applies:

(1)

Aggregate number of securities to which transaction applies:

(2)

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):

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Proposed maximum aggregate value of transaction:

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Total fee paid:

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Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

Amount Previously Paid:

(1)

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(2)

Filing Party:

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Date Filed:

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**PRELIMINARY COPY – SUBJECT TO COMPLETION**

**BIOCRYST PHARMACEUTICALS, INC.**

**4505 Emperor Blvd., Suite 200**

**Durham, North Carolina 27703**

**NOTICE OF SPECIAL MEETING OF STOCKHOLDERS**

**To Be Held October 30, 2018**

To the Stockholders of BioCryst Pharmaceuticals, Inc.:

Notice is hereby given that a Special Meeting of Stockholders of BioCryst Pharmaceuticals, Inc., a Delaware corporation (the “Company”), will be held at our corporate offices at 4505 Emperor Blvd., Suite 200, Durham, NC 27703 on Tuesday, October 30, 2018 at 10:00 a.m., Eastern Daylight Time (the “Meeting”), for the following purposes:

1. To approve an amendment to the Stock Incentive Plan to, among other things, increase the number of shares available for issuance under the Stock Incentive Plan by 4,400,000 shares; and
2. To transact such other business as may properly come before the Meeting or any adjournment or postponement thereof.

**THE BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT YOU VOTE IN FAVOR OF PROPOSAL 1.** The proposal is further described in the Proxy Statement.

The Board of Directors has fixed the close of business on September 19, 2018 as the record date for the determination of stockholders entitled to receive notice of and to vote at the Meeting or any adjournment thereof. The Meeting may be adjourned from time to time without notice other than announcement at the Meeting, and any business for which notice of the Meeting is hereby given may be transacted at any such adjournment. A list of the stockholders entitled to

vote at the Meeting will be open to examination by any stockholder, for any purpose germane to the Meeting, during ordinary business hours, for a period of at least ten days prior to the Meeting at the principal executive offices of the Company in Durham, North Carolina.

Please review carefully the Proxy and Proxy Statement.

BY ORDER OF THE BOARD OF DIRECTORS

Alane P. Barnes, Senior Vice President and Chief Legal Officer

Durham, North Carolina

September [ ], 2018

**ALL STOCKHOLDERS ARE INVITED TO ATTEND THE SPECIAL MEETING IN PERSON. WHETHER OR NOT YOU PLAN TO ATTEND THE MEETING, PLEASE VOTE PROMPTLY. A PERSON GIVING A PROXY HAS THE POWER TO REVOKE IT. IF YOU ATTEND THE MEETING, YOUR PROXY WILL NOT BE COUNTED WITH RESPECT TO ANY MATTER UPON WHICH YOU VOTE IN PERSON.**

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**BIOCRYST PHARMACEUTICALS, INC.**

**4505 Emperor Blvd., Suite 200**

**Durham, North Carolina 27703**

**PROXY STATEMENT**

**General**

This Proxy Statement is furnished in connection with the solicitation of proxies by the Board of Directors (the “Board”) of BioCryst Pharmaceuticals, Inc. (“BioCryst” or the “Company”) for the Special Meeting of Stockholders of the Company to be held at our corporate offices at 4505 Emperor Blvd., Suite 200, Durham, NC 27703 on Tuesday, October 30, 2018 at 10:00 a.m., Eastern Daylight Time, and any adjournment or postponement thereof (the “Meeting”) and for the purposes set forth in the accompanying Notice of Special Meeting of Stockholders.

In this document, the words “BioCryst,” “the Company,” “we,” “our,” “ours,” and “us” refer only to BioCryst Pharmaceuticals Inc. and not any other person or entity.

This Proxy Statement and the accompanying form of proxy card are first being mailed to Stockholders on or about September 28, 2018.

**Important Notice Regarding the Availability of Proxy Materials for the Stockholder Meeting to Be Held on October 30, 2018:** The Notice of Annual Meeting, Proxy Statement, Form of Proxy, and Annual Report on Form 10-K are available at [www.proxyvote.com](http://www.proxyvote.com).

**Purpose of the Meeting**

The matters to be considered at the Meeting are:

- 1.

To approve an amendment to the Stock Incentive Plan to, among other things, increase the number of shares available for issuance under the Stock Incentive Plan by 4,400,000 shares; and

2. To transact such other business as may properly come before the Meeting or any adjournment or postponement thereof.

### **Revocation and Voting of Proxies**

Any proxy given pursuant to this solicitation may be revoked by the person giving it at any time prior to the voting thereof, by giving written notice to our Corporate Secretary at our principal executive offices, 4505 Emperor Blvd., Suite 200 Durham, NC 27703 or by voting in person at the Meeting. Attendance at the Meeting will not, by itself, revoke a proxy. All valid, unrevoked proxies will be voted as directed. In the absence of any contrary directions, proxies received by the Board will be voted FOR the amendment to the Stock Incentive Plan to, among other things, increase the number of shares available for issuance under the Stock Incentive Plan by 4,400,000 shares.

With respect to such other matters as may properly come before the Meeting, votes will be cast in the discretion of the appointed proxies.

### **Voting and Quorum**

Only holders of record (the "Stockholders") of our common stock (the "Common Stock") as of the close of business on September 19, 2018 (the "Record Date") will be entitled to notice of and to vote at the Meeting. At September 19, 2018 there were [ ] shares of Common Stock outstanding. Stockholders are entitled to vote in any one of the following ways:

1. **In Person**. Stockholders who choose to attend the Meeting can vote in person at the Meeting by presenting a form of photo identification acceptable to the Company.
2. **By Internet**. Stockholders can vote on the Internet by following the instructions provided on the proxy card.
3. **By Mail**. Stockholders can vote by mail by following the instructions provided on the proxy card.

4. **By Telephone:** Stockholders can vote over the telephone using the toll-free telephone number forth in the instructions provided on the proxy card.

Each share of Common Stock is entitled to one vote on all matters on which Stockholders may vote. The presence, in person or by proxy, of a majority of the outstanding shares of Common Stock is necessary to constitute a quorum at the Meeting. Shares of Common Stock represented by a properly executed and returned proxy will be treated as present at the Meeting for purposes of determining the presence of a quorum without regard to whether the proxy is marked as casting a vote for or against, or withholding authority or abstaining with respect to a particular matter. In addition, shares of Common Stock represented by “broker non-votes” generally will be treated as present for purposes of determining the presence of a quorum. Broker non-votes are shares of Common Stock held in record name by brokers, banks or other nominees as to which a proxy is received and (i) instructions have not been received from the beneficial owners or persons entitled to vote, (ii) the broker or nominee does not have discretionary power and (iii) the record holder had indicated that it does not have authority to vote such shares on that matter. Under current stock exchange rules, brokers who do not have instructions from their customers may not use their discretion in voting their customers’ shares on certain specific matters that are not considered to be “routine” matters. The proposal in this Proxy Statement regarding the amendment to the Stock Incentive Plan is not considered to be a routine matter.

### **Attending the Meeting**

Stockholders as of the Record Date are invited to attend the Meeting. Stockholders must present a form of photo identification acceptable to the Company, such as a valid driver’s license or passport. Registered holders may vote upon presentation of identification. Beneficial owners must obtain a proxy from their broker, bank or other holder of record and present it to the inspector of election with their ballot. Each stockholder may appoint only one proxy holder or representative to attend the Meeting on his or her behalf. The Meeting will begin promptly at 10:00 a.m., Eastern Daylight Time. Please allow ample time for the check-in procedures. Media may attend the Meeting by invitation only.

### **Required Votes, Abstentions, and Broker Non-Votes**

The affirmative vote of the holders of a majority of the shares of Common Stock represented in person or by proxy at the Meeting and entitled to vote on this proposal is required for approval of the amendment to the Stock Incentive Plan. Abstentions with respect to this proposal will have the same effect as a vote against this proposal, and broker non-votes will have no effect upon this proposal.

### **Proxy Solicitation**



We are making this proxy solicitation both through the mail and Internet, although proxies may be solicited by personal interview, telephone, facsimile, letter, e-mail or otherwise. Certain of our directors, officers and other employees, without additional compensation, may participate in the solicitation of proxies. We will pay the cost of this solicitation, including the reasonable charges and expenses of brokerage firms and others who forward solicitation materials to beneficial owners of the Common Stock. We have retained Morrow & Co., LLC, 470 West Ave, Stamford, CT 06902 to act as proxy solicitor in conjunction with the Meeting. We have agreed to pay that firm approximately \$10,000 plus reasonable out of pocket expenses for their services.

## ITEMS TO BE VOTED UPON

### **1. Approval of an amendment to the Stock Incentive Plan to, AMONG OTHER THINGS, increase the number of shares available for issuance under the Stock Incentive Plan by 4,400,000 shares**

We are asking our stockholders to approve an amendment to the BioCryst Pharmaceuticals, Inc. Stock Incentive Plan (the “Plan Amendment,” and such plan, as amended, the “Stock Incentive Plan”) to increase the number of shares available for issuance under the Stock Incentive Plan by 4,400,000, which would bring the total number of shares available under the Stock Incentive Plan to 18,798,268 as of September 14, 2018, which is currently expected to be sufficient under the plan through the next annual meeting of stockholders expected to occur in the second quarter of 2019. In connection with the increase in shares available for issuance under the Stock Incentive Plan, we also amended the Stock Incentive Plan to provide two stockholder-friendly changes: (i) a provision that no award (subject to a 5% carveout) may vest prior to the 12-month anniversary of the applicable grant date and (ii) a provision that no dividends may be paid on unvested awards (except that dividend equivalents may be issued with respect to restricted stock and restricted stock units, with payment if and when those awards ultimately vest).

On September 17, 2018, our Board approved the Plan Amendment, subject to stockholder approval at this Meeting. The Stock Incentive Plan, as amended by the Plan Amendment (the “2018 SIP”), is attached as Annex A to this proxy statement. The principal provisions of the 2018 SIP are summarized below. This summary is not complete and is qualified in its entirety by the terms of the 2018 SIP.

At our annual meeting of stockholders on June 20, 2018, in anticipation of our then pending merger with Idera Pharmaceuticals, Inc. (“Idera”), we did not seek an increase in the number of shares reserved for issuance under the Stock Incentive Plan. Our merger agreement with Idera was terminated on July 10, 2018. The increase in shares reserved for issuance under the Stock Incentive Plan pursuant to the Plan Amendment is necessary to allow the Company to provide customary levels of equity incentives to employees, including without limitation the long-term equity incentive awards that the Compensation Committee of the Board has historically granted to all employees on an annual basis. Our Board believes that the increase in the share reserve is necessary to assure that a sufficient reserve of Common Stock remains available for issuance as equity awards to attract and retain the services of individuals essential to our long-term growth and financial success. We rely significantly on equity incentives in order to attract and retain employees, consultants, and non-employee directors, and believe that such equity incentives are necessary for us to remain competitive in the marketplace for executive talent and for other key individuals.

The Plan Amendment made two significant stockholder-friendly changes to the plan design. First, no award (subject to a 5% carveout) may vest prior to the 12-month anniversary of the applicable grant date. Second, no dividends may be paid on unvested awards (except that dividend equivalents may be issued with respect to restricted stock and restricted stock units, with payment if and when those awards ultimately vest).

The following is a summary of the principal features of the Stock Incentive Plan, including (unless otherwise noted) the terms of the Plan Amendment.

### **Equity Incentive Programs**

The Stock Incentive Plan consists of three separate equity incentive programs:

- the Discretionary Option Grant Program;
- the Stock Issuance Program; and
- the Automatic Option Grant Program for non-employee Board members.

The principal features of each program are described below. The Compensation Committee of the Board, or, in the absence of the Compensation Committee, a properly constituted committee of the Board, or the Board itself, has the authority to administer the Discretionary Option Grant Program and the Stock Issuance Program with respect to option grants and stock issuances made to our executive officers and non-employee Board members, and also has the authority to make grants under those programs to all other eligible individuals. The Compensation Committee may by resolution authorize one or more officers of the Company to perform any or all things that the Committee is authorized and empowered to do or perform under the Plan, and for all purposes under the Plan, such officer or officers shall be treated as the Committee.

The term “plan administrator,” as used in this summary, means the Compensation Committee, the Board, or one or more officers of the Company, to the extent that any of them is acting within the scope of its administrative jurisdiction under the Stock Incentive Plan. However, neither the Compensation Committee nor any secondary committee will exercise any administrative discretion under the Automatic Option Grant Program. All grants under that program will be made in strict compliance with the express provisions of the program.

## **Share Reserve**

As of September 14, 2018, an aggregate of 24,190,000 shares of Common Stock have been reserved for issuance over the term of the Stock Incentive Plan, without giving effect to the share increase proposed under the terms of this proposal. The total number of shares available under the Stock Incentive Plan as of September 14, 2018, without giving effect to the share increase proposed under the terms of this proposal, is 14,398,268. This amount consists of 14,117,544 shares reserved for awards already granted and 280,724 shares of Common Stock currently available for future issuance under the Stock Incentive Plan. Approval of the Plan Amendment will increase the number of shares available for issuance under the Stock Incentive Plan by 4,400,000 shares.

The shares of Common Stock issuable under the Stock Incentive Plan may be drawn from shares of our authorized but unissued Common Stock or from shares of Common Stock reacquired by us, including shares repurchased on the open market.

No individual may receive options or other awards under the Stock Incentive Plan exceeding 1,500,000 shares in the aggregate in any calendar year.

In the event any change is made to the outstanding shares of Common Stock by reason of any recapitalization, stock dividend, stock split, combination of shares, exchange of shares or other change in corporate structure effected without our receipt of consideration, appropriate adjustments will be made to the securities issuable (in the aggregate and per participant) under the Stock Incentive Plan and the securities in effect under each outstanding option and stock issuance and, where applicable, the option exercise price per share.

## **Eligibility**

Officers and employees, non-employee Board members and independent consultants in our service or the service of our parents or subsidiaries, whether now existing or subsequently established, are eligible to participate in the Discretionary Option Grant Program and the Stock Issuance Program. Non-employee members of the Board are also eligible to participate in the Automatic Option Grant Program.

As of September 19, 2018, six executive officers, six non-employee Board members and approximately 80 employees and consultants were eligible to participate in the Discretionary Option Grant Program and the Stock Issuance Program. Our six non-employee Board members were also eligible to participate in the Automatic Option Grant Program.

## **Valuation**

The “fair market value” per share of Common Stock on any relevant date under the Stock Incentive Plan will be deemed to be equal to the closing selling price per share on that date on the Nasdaq Global Select Market. On September 19, 2018, the closing selling price of our stock per share was \$[ ].

## **Discretionary Option Grant Program**

### *Terms of Options*

The Plan Administrator has complete discretion under the Discretionary Option Grant Program to determine which eligible individuals are to receive option grants, the time or times when those grants are to be made, the number of shares subject to each grant, the status of any granted option as either an incentive stock option or a non-statutory option under the federal tax laws, the vesting schedule, if any, for the option grant and the maximum term for which any granted option is to remain outstanding.

Each granted option will have an exercise price per share no less than the fair market value of the option shares on the grant date. No granted option will have a term in excess of ten years, and the option will generally become exercisable in one or more installments over a specified period of service measured from the grant date. However, one or more options may be structured so that they will be immediately exercisable for any or all of the option shares; the shares acquired under those options will be unvested and subject to repurchase by us, at the exercise price paid per share, if the optionee ceases service with us prior to vesting in those shares.

Upon cessation of service, the optionee will have a limited period of time in which to exercise any outstanding option to the extent exercisable for vested shares. The Plan Administrator will have complete discretion to extend the period following the optionee’s cessation of service during which his or her outstanding options may be exercised and/or to accelerate the exercisability or vesting of such options in whole or in part. Such discretion may be exercised at any time while the options remain outstanding, whether before or after the optionee’s actual cessation of service.

Upon the optionee's cessation of service as a result of death after at least five years of service, all of the optionee's outstanding options will accelerate and become exercisable in full.

In no event may options (or stock appreciation rights) granted under the Stock Incentive Plan be directly or indirectly repriced without the approval of our stockholders.

### ***Stock Appreciation Rights***

The Plan Administrator is authorized to issue tandem stock appreciation rights in connection with option grants made under the Discretionary Option Grant Program. The grant price of a stock appreciation right may not be less than the fair market value of our Common Stock on the date of the grant.

Tandem stock appreciation rights under the Discretionary Option Grant Program provide the holder with the right to surrender an option for an appreciation distribution from the Company. The amount of this distribution will be equal to the excess of:

- (i) the fair market value of the vested shares of Common Stock subject to the surrendered option, over
- (ii) the aggregate exercise price payable for such shares.

An appreciation distribution may, at the discretion of the Plan Administrator, be made in cash or in shares of Common Stock, or a combination thereof.

### **Stock Issuance Program**

Shares may be issued under the Stock Issuance Program at a price per share not less than their fair market value, payable in cash. Shares may also be issued as consideration for services rendered without any cash outlay required from the recipient. The shares issued vest upon the completion of a designated service period, the attainment of pre-established performance goals, or a specific period of time after issuance. To the extent a participant ceases service without completing the designated service period or performance goals, we have the right to repurchase the shares at the price paid, if any. However, the Plan Administrator has the discretionary authority at any time to

accelerate the vesting of any and all unvested shares outstanding under the program, subject to the one-year minimum vesting requirement described above. Share recipients will have full stockholder rights with respect to their shares, including the right to vote the shares and to receive regular cash dividends. Share recipients do not have rights with respect to unvested shares; however, the Plan Administrator may grant dividend equivalents entitling the holder of such unvested shares to regular cash dividends payable on such shares. Dividend equivalents are subject to the same vesting schedule and payable at the same time as the shares to which such dividend equivalents relate.

Shares of Common Stock may also be issued under the program pursuant to Restricted Stock Units (“RSUs”) that entitle the recipient to receive shares of Common Stock (or cash in lieu thereof) in the future following the satisfaction of vesting conditions imposed by the Plan Administrator. Outstanding RSUs under the program will automatically terminate, and no shares of Common Stock will be issued in satisfaction of those awards, if the vesting conditions established for the awards are not satisfied. The Plan Administrator, however, has the discretionary authority to issue shares of Common Stock in satisfaction of one or more outstanding RSUs as to which the vesting conditions are not satisfied, subject to the one-year minimum vesting requirement described above. RSU holders do not have stockholder rights with respect to the awards; however, the Plan Administrator may grant dividend equivalents entitling the holder of RSUs to regular cash dividends payable on the underlying shares. Dividend equivalents are subject to the same vesting schedule and payable at the same time as the shares underlying the RSU to which such dividend equivalents relate.

The Plan Administrator has complete discretion under the program to determine which eligible individuals are to receive stock issuances or RSUs, the time or times when those issuances or awards are to be made, the number of shares subject to each issuance or award, the extent to which a RSU will have an accompanying dividend equivalent, and the vesting schedule to be in effect for the stock issuance or RSU (subject to a one-year minimum vesting requirement described above).

### **Automatic Option Grant Program**

#### *Terms of Options*

Under the Automatic Option Grant Program, eligible non-employee Board members, including Board members who are our former employees, will receive a series of option grants over their period of Board service. Each non-employee Board member will, at the time of his or her initial election or appointment to the Board or upon continuing to serve as a Board member after ceasing to be employed by us, receive an option grant for up to 60,000 shares of Common Stock. The amount of the initial grant is determined by multiplying:

(i) a fraction, the numerator of which is the number of months remaining between the date the Board member first became a non-employee Board member and the date of the next Annual Meeting and the denominator of which is 12, by

(ii) 60,000 shares of Common Stock.

In addition, each year on the date of the Annual Meeting, each individual who is to continue to serve as a non-employee Board member will automatically be granted an additional option to purchase 30,000 shares of Common Stock. There is no limit on the number of these 30,000-share option grants any one eligible non-employee Board member may receive over his or her period of continued Board service.

Each automatic grant will have an exercise price per share equal to the fair market value per share of Common Stock on the grant date and will have a term of ten years. Each initial automatic option grant will vest at the annual meeting immediately following the grant (or, if later, 12 months after grant). Each annual automatic option grant shall vest and become exercisable on the 12-month anniversary of the grant date. With respect to both the initial automatic option grant and the annual automatic option grant, vesting will cease and options will not become exercisable for any additional option shares following the optionee's cessation of Board service for any reason. Following an optionee's cessation of Board service for any reason, each option vested at the time of cessation of Board service will remain exercisable by the optionee (or after the optionee's death, by his or her estate or heirs) for the remainder of the ten-year term of that option.

### ***Stock Appreciation Rights***

The terms of the Automatic Option Grant Program provide that options will have one of two different stock appreciation rights, depending on the date on which the option is granted. In either case, the grant price of the stock appreciation right may not be less than the fair market value of our Common Stock on the date of the grant.

Each option granted under the Automatic Option Grant Program prior to March 7, 2006 includes a limited stock appreciation right which provides that, upon the successful completion of a hostile tender offer for more than fifty percent of our outstanding voting securities or a change in a majority of the Board as a result of one or more contested elections for Board membership, the option may be surrendered to us in return for a cash distribution from us. The amount of the distribution per surrendered option shares will be equal to the excess of:

(i) the fair market value per share at the time the option is surrendered, over



(ii) the exercise price payable per share under such option.

Each option granted under the Automatic Option Grant Program on or after March 7, 2006 contains a tandem stock appreciation right that gives the holder the right to surrender the option for an appreciation distribution, to be paid by us to the holder in shares of Common Stock. The amount of the distribution will be equal to the excess of:

(i) the fair market value of the vested shares of Common Stock subject to the surrendered option, over

(ii) the aggregate exercise price payable for such shares.

## **General Provisions**

### *Acceleration*

In the event that we are acquired by merger or asset sale or otherwise undergo a change in control, including a change effected through the successful completion of a tender offer for more than 50% of our outstanding voting stock or a change in the majority of the Board effected through one or more contested elections for Board membership, except as set forth in the terms of the grant, the vesting of each outstanding option under Automatic Option Grant Program, and the vesting of each RSU under the Stock Issuance Program, shall automatically accelerate in full. However, all other grants under the Stock Incentive Plan made after the date hereof will be subject to “double trigger” vesting if the grants are assumed, in which case accelerated vesting will apply only if the grantee’s service is terminated by us without “cause” or the grantee due to a “constructive termination” within 90 days preceding or two years following the change in control. If the grants are not assumed in connection with the change in control, they will fully vest upon the change in control.

***Payment of Withholding Taxes for Options***

The Plan Administrator may provide one or more participants in the Discretionary Option Grant Program and Stock Issuance Program with the right to have us withhold a portion of the shares otherwise issuable to such participants in satisfaction of applicable withholding taxes that attach upon the exercise of options or the vesting of stock issuances or RSUs. Alternatively, the Plan Administrator may allow participants to deliver previously acquired shares of Common Stock in payment of such withholding tax liability.

***Amendment and Termination***

The Board may amend or modify the Stock Incentive Plan at any time, subject to any required stockholder approval pursuant to applicable laws and regulations (including applicable Nasdaq Global Select Market rules). Unless sooner terminated by the Board, the Stock Incentive Plan will terminate on the earliest of:

(i) ten years following the date the Stock Incentive Plan is approved by the Board, which will be September 17, 2028 (but any options, stock issuances or other awards outstanding on such date shall remain in effect in accordance with their terms);

(ii) the date on which all shares available for issuance under the Stock Incentive Plan have been issued as fully vested shares; or

(iii) the termination of all outstanding options and stock issuances in connection with certain changes in control or ownership of the Company.

**New Plan Benefits**

Future awards under the Stock Incentive Plan are indeterminable. All grants are determined by the Plan Administrator in its discretion and no arrangements have been made at this time with respect to the shares reserved for issuance under the Stock Incentive Plan. The following tabulation reflects the awards granted to the following persons in 2017 under the Stock Incentive Plan:

Name and Position	Dollar Value (\$)(1)	Number of Units	
Jon P. Stonehouse President, Chief Executive Officer	4,276,000(2)	800,000	(2)
Thomas R. Staab, II Senior Vice President and Chief Financial Officer	1,468,250(2)	275,000	(2)
Yarlagadda S. Babu Senior Vice President of Drug Discovery	1,468,250(2)	275,000	(2)
William P. Sheridan Senior Vice President and Chief Medical Officer	1,468,250(2)	275,000	(2)
Lynne M. Powell Senior Vice President and Chief Commercial Officer	1,229,700(2)	230,000	(2)
Executive Officer Group	9,901,450(2)	1,855,000(2)	
Non-Employee Director Group	1,077,300(3)	210,000	(3)
Non-Executive Officer Employee Group	9,880,069(4)	1,849,996(4)	

(1) Amounts shown in the Dollar Value column represent the number of stock options granted multiplied by the exercise price of such options.

(2) Represents stock options granted on February 27, 2017 and December 20, 2017 under the Stock Incentive Plan.

(3) Represents stock options granted to our non-employee directors pursuant to the Automatic Option Grant Program on May 24, 2017.

(4) Represents stock options granted to employees during 2017 who were not executive officers on February 27, 2017 or December 20, 2017 under the Stock Incentive Plan.

## Equity Compensation Plan Information

As of September 14, 2018, an aggregate of 24,190,000 shares of Common Stock have been reserved for issuance over the term of the Stock Incentive Plan, without giving effect to the share increase proposed under the terms of this proposal. The total number of shares available under the Stock Incentive Plan as of September 14, 2018, without giving effect to the share increase proposed under the terms of this proposal is 14,398,268. This amount consists of 14,117,544 shares reserved for awards already granted and 280,724 shares of Common Stock available for future issuance under the Stock Incentive Plan.

Information regarding the securities authorized for issuance under our equity compensation plans is presented as of December 31, 2017, which does not give effect to the increase of 4,400,000 shares of Common Stock included in the proposal as noted below.

Plan Category	(a) Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	(b) Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights(\$)	(c) Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (Excluding Securities Reflected in Column (a))
Equity compensation plans approved by security holders	14,661,521	(1) 6.06	795,109 (2)
Equity compensation plans not approved by security holders	—	—	—
Total	14,661,521	6.06	795,109

Represents stock option awards and restricted stock units granted under the Stock Incentive Plan. The number of (1) shares that may be issued pursuant to the Employee Stock Purchase Plan during a given period and the purchase price of such shares cannot be determined in advance of such purchases.

(2) Consists of 468,839 shares available for future issuance under the Stock Incentive Plan and 326,270 shares available for future issuance under the Employee Stock Purchase Plan.

## Federal Income Tax Consequences

### *Option Grants*

Options granted under the Stock Incentive Plan may be either incentive stock options which satisfy the requirements of Section 422 of the Internal Revenue Code or non-statutory options which are not intended to meet such requirements. The federal income tax treatment for the two types of options differs as follows:

*Incentive Stock Options.* No taxable income is recognized by the optionee at the time of the option grant, and no taxable income is generally recognized at the time the option is exercised. The optionee will, however, recognize taxable income in the year in which the purchased shares are sold or otherwise transferred. For federal tax purposes, dispositions are divided into two categories: (i) qualifying and (ii) disqualifying. A qualifying disposition occurs if the sale or other disposition is made after the optionee has held the shares for more than two years after the option grant date and more than one year after the exercise date. If either of these two holding periods is not satisfied, then a disqualifying disposition will result. If the optionee makes a qualifying disposition, the taxable income recognized by the optionee will be treated as a long-term capital gain and we will not be entitled to an income tax deduction. If the optionee makes a disqualifying disposition of the purchased shares, then for the taxable year in which such disposition occurs, the optionee will recognize ordinary income, and we will be entitled to an income tax deduction, in an amount generally equal to the excess of (i) the fair market value of such shares on the option exercise date over (ii) the exercise price paid for the shares.

*Non-Statutory Options.* No taxable income is recognized by an optionee upon the grant of a non-statutory option. The optionee will in general recognize ordinary income in the year in which the option is exercised, in an amount equal to the excess of the fair market value of the purchased shares on the exercise date over the exercise price paid for the shares.

We will be entitled to an income tax deduction equal to the amount of ordinary income recognized by the optionee with respect to the exercised non-statutory option. The deduction will in general be allowed for the taxable year of the Company in which such ordinary income is recognized by the optionee.

### ***Stock Appreciation Rights***

No taxable income is recognized upon receipt of a stock appreciation right. The holder will recognize ordinary income in the year in which the stock appreciation right is exercised, in an amount equal to the appreciation distribution. We will be entitled to an income tax deduction equal to the appreciation distribution in the taxable year in which the ordinary income is recognized by the optionee.

### ***Stock Issuances***

Generally, the issuance of unvested stock will not result in taxable income to the employee. Instead, upon vesting, the fair market value of such shares, less cash or other consideration paid (if any), will be included in the participant's ordinary income as compensation. Any cash dividends or other distributions paid with respect to the stock prior to vesting will also be included in the holder's ordinary income as compensation when paid. The participant may however, elect under Section 83(b) of the Internal Revenue Code, to include in his ordinary income at the time the stock is issued the fair market value of such shares less any amount paid. Any cash dividends paid thereafter will be treated as dividend income.

Subject to Section 162(m) of the Code, we will be entitled to an income tax deduction equal to the amount of ordinary income recognized by the participant with respect to the stock issuance. The deduction will in general be allowed for the taxable year of the Company in which such ordinary income is recognized by the participant.

### ***Restricted Stock Units (RSUs)***

No taxable income is recognized by a participant upon grant of a restricted stock unit. The participant will recognize ordinary income in the year in which the RSU vests and the underlying stock is issued to the participant, in an amount equal to the fair market value of the shares on the date of issuance. Any cash or other property paid with respect to such shares on the vesting date will also be includible in the participant's ordinary income as compensation at the time of payment. A participant may not make an 83(b) election with respect to an RSU. Subject to Section 162(m) of the Code, we will be entitled to an income tax deduction to the extent the participant recognizes ordinary income with respect to an RSU. The deduction will in general be allowed for the taxable year of the Company in which such ordinary income is recognized by the participant.

## **Deductibility of Executive Compensation**

We anticipate that any compensation deemed paid by the Company in connection with the disqualifying dispositions of incentive stock option shares or the exercise of non-statutory options with exercise prices equal to the fair market value of the option shares on the grant date will qualify as performance-based compensation for purposes of Code Section 162(m) and will not have to be taken into account for purposes of the \$1 million limitation per covered individual on the deductibility of the compensation paid to certain of our executive officers. Accordingly, all compensation deemed paid with respect to those options will remain deductible by the Company without limitation under Code Section 162(m). Compensation attributable to stock issuances or RSUs granted under the Stock Incentive Plan may or may not qualify for the performance-based compensation exception, depending upon the specific terms of each grant.

## **Recommendation of the Board of Directors**

**THE BOARD OF DIRECTORS DEEMS THE AMENDMENT TO THE STOCK INCENTIVE PLAN TO, AMONG OTHER THINGS, INCREASE THE NUMBER OF SHARES AVAILABLE FOR ISSUANCE UNDER THE STOCK INCENTIVE PLAN BY 4,400,000 SHARES TO BE IN THE BEST INTERESTS OF THE COMPANY AND ITS STOCKHOLDERS AND RECOMMENDS A VOTE FOR APPROVAL OF THE AMENDMENT TO THE STOCK INCENTIVE PLAN.**

## **COMPENSATION DISCUSSION AND ANALYSIS**

The following Compensation Discussion and Analysis and related compensation tables were previously included in Amendment No. 1 to the Company's Annual Report on Form 10-K filed with the Securities and Exchange Commission (the "SEC") on March 27, 2018 and the Company's definitive proxy statement for its 2018 Annual Meeting of Stockholders held on June 20, 2018. The Company has included this disclosure in this proxy statement for the Special Meeting as required by Schedule 14A and related rules of the SEC.

## **Philosophy and Overview of Compensation**

The Compensation Committee (referred to in this section as the Committee) of the Board of Directors has the responsibility for establishing, implementing and monitoring adherence with the Company's compensation philosophy. Our goal is to provide a compensation package that attracts, motivates and retains employees' talent and is designed to align employees' interests with the Company's corporate strategies, business objectives and the interests of the stockholders. We refer to the individuals who served as our Chief Executive Officer, or CEO, and Chief Financial

Officer, or CFO, during 2017, as well as the other individuals included in the Summary Compensation Table, as our “Named Executive Officers” or “NEOs.” Those individuals are as follows:



Jon P. Stonehouse, who joined the Company in January 2007 as Chief Executive Officer and Director. He was also named President in July 2007.

- Thomas R. Staab, II, who joined the Company in July 2011 as its Chief Financial Officer and Treasurer. He was also named Principal Accounting Officer in January 2013.

Yarlagadda S. Babu, Ph.D., who joined the Company in 1988 and was BioCryst's first full-time employee. Dr. Babu has served as the Company's Vice President — Drug Discovery since 1992. In October 2013, Dr. Babu's title was changed to Senior Vice President of Drug Discovery.

William P. Sheridan, who joined the Company in July 2008 as its Senior Vice President and Chief Medical Officer.

Lynne M. Powell, who joined the Company in January 2015 as its Senior Vice President and Chief Commercial Officer.

The Committee's primary objectives for our executive compensation program are as follows:

to have a substantial portion of each officer's compensation contingent upon the Company's performance as well as upon his or her own level of performance and contribution towards the Company's performance and long-term strategic goals;

to align the interests of our executives with the Company's corporate strategies, business objectives and the long-term interests of our stockholders; and

to attract, motivate and retain our executive talent.

### **Role of the Compensation Committee and Executive Officers**

The Committee has the authority to determine the Company's compensation philosophy, assess overall corporate performance for the year end and its impact on the bonus pool, options pool and base salary adjustment pool, and to establish compensation for the Company's executive officers. The Company does not conduct annual individual performance reviews; rather, compensation decisions for each individual employee, including the CEO and the other Named Executive Officers, have been determined by the Committee based on its assessment of the performance of the Company. Management recommended this approach as a mechanism to align the incentives of every employee with those of the Company's shareholders and to reinforce the highly focused corporate strategy of the Company. The CEO makes recommendations to the Committee with respect to employee compensation. Neither the CEO nor any other Named Executive Officer participates in the Committee's final determination of compensation for officers or directors.

## **Role of Compensation Consultants**

It is the practice of the Company to use a compensation consultant to perform an annual competitive compensation analysis of the Company's overall compensation practices. In 2015, the Committee engaged Radford, a division of Aon Hewitt ("Radford") as the Company's compensation consultant, to conduct the overall analysis of the Company's compensation practices and those of comparable companies in the biotechnology industry.

Under the direction of the Committee, Radford annually conducts an analysis of overall compensation practices, including benchmark comparisons of base salary, annual incentive targets and stock option grant levels against a "peer group" of comparable companies discussed in more detail below. The results of this analysis are reviewed by the Committee in connection with its annual compensation decisions, including base salary determinations, annual incentive targets and long-term equity grant levels.

## **Peer Group**

The Committee considers relevant market pay practices when setting executive compensation to increase our ability to recruit and retain high performing talent. In assessing market competitiveness, the Committee compares the Company's executive compensation with executive compensation at a designated set of companies (the "Peer Group"), consisting of 25 other publicly traded biopharmaceutical companies, with market capitalization ranging from approximately \$100 million to \$1.6 billion, companies that generally:

are similar to the Company in terms of one or more of the following: size (i.e., employee headcount, revenue, market capitalization, etc.), stage of development for primary products, cash runway, and research and development ("R&D") investment;

have named executive officer positions that are comparable to the Company’s in terms of breadth, complexity, and scope of responsibilities; and

compete with the Company for employee talent.

Each Peer Group company participated in a Radford survey of executive total compensation for various corporate positions, which survey is widely used among biotechnology companies. Radford analyzed both survey data and compensation information reported in the public filings of the Peer Group companies for the comparative analysis and adjusted the data to reflect the age of the reported information. The 2017 Peer Group consisted of the following companies:

Accelaron Pharma	Cempra	Epizyme	OncoMed Pharmaceuticals
AcelRx Pharmaceuticals	ChemoCentryx	Idera Pharmaceuticals	Progenics Pharmaceuticals
Agenus	Chimerix	Inovio Pharmaceuticals	Regulus Therapeutics
Ardelyx	Cytokinetics	Keryx Biopharmaceuticals	Rigel Pharmaceuticals
Array BioPharma	Dynavax Technologies	MacroGenics	Sangamo Therapeutics
BioDelivery Sciences International	Enanta Pharmaceuticals	NewLink Genetics	ZIOPHARM Oncology
Celldex Therapeutics			

### **Role of the 2017 Advisory Vote on Executive Compensation**

At our annual meeting in May 2017, our stockholders approved our “say-on-pay” proposal with more than 76% of the votes cast approving our executive compensation policies as described in our 2017 Proxy Statement filed on April 12, 2017. The Committee believes that this vote reflected stockholder agreement with the Committee’s overall compensation philosophy and actions, and therefore, the Committee continued to apply similar principles in determining the amounts and types of executive compensation for fiscal 2017, with specific compensation decisions to be made each year in consideration of these principles and the Company’s results and performance. In order to align employee incentives to shareholder interests, the performance of each employee, including that of the CEO and other Named Executive Officers, is evaluated based on the Committee’s assessment of the overall performance of the Company. The Committee will continue to consider the outcome of stockholder say-on-pay votes in making future executive compensation decisions.

### **Elements of Executive Compensation**

The Company’s 2017 compensation program for executive officers was primarily comprised of the following elements:

- base salary;

- annual incentive compensation;

- long-term equity incentive awards; and

- other employee benefits.

### ***Base Salary***

The Company provides our employees with base salary to compensate them for services rendered during the fiscal year. In determining the base salary amount for each Named Executive Officer, the Committee primarily considers:

- industry experience, knowledge and qualifications;

- salary levels in effect for comparable positions within the Company's industry obtained from the Radford Biotechnology Survey; and

- individual performance of the executive and the general performance of the Company.

The Company's compensation practice is to generally target the competitive 50th percentile for base salary, annual incentive and stock option grants. Base salary levels for our Named Executive Officers may fluctuate from the 50th percentile based on each Named Executive Officer's particular experience, performance and value to the Company. For example, high-performing, experienced Named Executive Officers may be paid at or above the 75th percentile, while newer Named Executive Officers may be paid at a lower percentile. Base salary amounts are typically reviewed annually as part of the Company's performance review process as well as upon a promotion or other change in responsibility. To assist the Committee in determining appropriate base salary increases, the Company's compensation consultant provided competitive base salary levels by analyzing the competitive data described in more detail above.

In setting 2017 salaries, consistent with its philosophy for the last several years and given the small number of employees and the highly focused strategy of the Company, the Committee did not consider individual performance reviews but continued the approach of assessing all employees based on corporate performance. The Committee also considered the market competitiveness of the Company's current base salaries compared to the 2016 Peer Group based on the analysis prepared by Radford. For base salary, in consideration of, among other things, the unfavorable results of the "OPuS-2" (Oral ProhyplaxiS 2) clinical trial of orally administered avoralstat in patients with HAE and the ultimate discontinuation of the avoralstat program, as well as the delay of the Company's Phase 2 study of BCX7353 in HAE patients ("APeX-1"), the Committee determined that all employees, including the Named Executive Officers, should not receive a base salary increase at that time. As a result, the 2017 salaries for the Named Executive Officers were initially unchanged from their 2016 salaries. In February 2017, in consideration of recent developments in 2017, including the positive results of the interim analysis of APeX-1, advancements in the HAE and broad spectrum antiviral ("BSAV") programs, and the Company's progress with respect to RAPIVAB post-marketing commitments, the Committee reevaluated 2017 base salaries, including the market competitiveness of the 2017 base salaries compared to the Company's 2016 Peer Group based on the analysis prepared by Radford. Beginning in March 2017, the Committee approved a 3% increase in the annualized base salary of all employees for the remainder of 2017, including the Named Executive Officers.

The results of the base salary increases for the Named Executive Officers, beginning in March 2017, are as follows:

For Mr. Stonehouse, the increase resulted in an annualized base salary of \$535,422, between the 25<sup>th</sup> and 50<sup>th</sup> percentile compared to the 2016 Peer Group.

For Dr. Babu, the increase resulted in an annualized base salary of \$384,346, between the 25<sup>th</sup> and 50<sup>th</sup> percentile compared to the 2016 Peer Group.

For Dr. Sheridan, the increase resulted in an annualized base salary of \$471,431, above the 75<sup>th</sup> percentile compared to the 2016 Peer Group.

For Mr. Staab, the increase resulted in an annualized base salary of \$436,119, above the 75<sup>th</sup> percentile compared to the 2016 Peer Group.

For Ms. Powell, the increase resulted in an annualized base salary of \$371,315, between the 50<sup>th</sup> and 75<sup>th</sup> percentile compared to the 2016 Peer Group.

In setting 2018 salaries, consistent with its philosophy for 2017 salaries and given the small number of employees of the Company and the highly focused strategy of the Company, the Committee did not consider individual performance reviews but continued the approach of assessing all employees based on corporate performance. The Committee also considered the market competitiveness of the Company's current base salaries compared to the 2017 Peer Group based on the analysis prepared by Radford. For base salary, this resulted in all employees other than the Named Executive Officers receiving an approximate 3% increase, with larger percentage increases for certain employees whose base salary was deemed by the Committee to be substantially below market compared to the 2017 Peer Group based on analysis prepared by Radford. Similarly, this resulted in all of the Named Executive Officers (other than Dr. Babu) receiving an approximate 3% increase in base salary.

The results of the 2018 base salary increases for the Named Executive Officers were as follows:

For Mr. Stonehouse, the increase resulted in a base salary of \$550,000, between the 25<sup>th</sup> and 50<sup>th</sup> percentile compared to the 2017 Peer Group.

For Dr. Babu, the committee approved an approximate 9% increase, which resulted in a base salary of \$420,000, between the 50<sup>th</sup> and 75<sup>th</sup> percentile compared to the 2017 Peer Group. This increase reflected a determination to move Dr. Babu's compensation to between the 50<sup>th</sup> and 75<sup>th</sup> percentile compared to the 2017 Peer Group in recognition of the value of his contributions to the Company.

For Dr. Sheridan, the increase resulted in a base salary of \$485,574, above the 75<sup>th</sup> percentile compared to the 2017 Peer Group.

For Mr. Staab, the increase resulted in a base salary of \$449,202, above the 75<sup>th</sup> percentile compared to the 2017 Peer Group.

For Ms. Powell, the increase resulted in a base salary of \$382,454, between the 50<sup>th</sup> and 75<sup>th</sup> percentile compared to the 2017 Peer Group.

### ***Annual Incentive Compensation (AIP)***

It is the Committee's objective to have all of each officer's annual incentive program ("AIP") compensation contingent upon the Company's performance based on the achievement of pre-established corporate performance objectives. In order to reinforce the highly focused strategy of the Company, when determining the 2017 AIP payouts, the Committee did not consider individual performance reviews but rather assessed all officers based solely on its assessment of corporate performance against established corporate objectives.

The AIP provides an incentive target and maximum (each expressed as a percentage of annual base salary) for all employees of the Company, and is stratified by organization level of responsibility. For 2017, the Committee conducted an overall evaluation of Company performance in light of Company performance objectives.

The target and maximum percentages for all employees, including each Named Executive Officer, were set based on benchmark data described below. Based on performance, the actual payout can range from zero to the maximum percentage of annual base salary and varies by level in the Company. The overall amount of the AIP pool each performance year is determined by the Committee and based on their assessment of Company performance against the current year corporate objectives multiplied by the sum of all participants at target performance. The AIP plan allows the Committee to use its discretion in setting the size of the AIP pool. The Committee may decide that the pool is as low as 0 for a year of poor Company performance and may establish a pool that exceeds target for a year of exceptional Company performance.

The AIP provides that if the employment of a participating employee is terminated as a result of death, retirement or permanent disability, the employee is eligible to receive a pro rata award based on his or her base salary on the date of separation during the plan year in which the employee was considered an active employee and the number of whole months actually worked. In all other circumstances, absent provisions to the contrary in an employment agreement, all awards are forfeited if an employee voluntarily or involuntarily terminates employment with the Company before the

annual incentive awards are paid.

In 2015, the Committee engaged Radford as compensation consultant to leverage Radford's specific expertise in the biotechnology sector. Radford reassessed comparative company benchmark data based upon the Radford Biotechnology Survey for 2015 and, based on Radford's reassessment, the Committee adjusted the targets for the Named Executive Officers in accordance with such data. The Committee maintained the targets and maximums for the Named Executive Officers in the 2017 plan year as follows: Jon Stonehouse: target 55% and maximum 75%; Dr. Sheridan, Dr. Babu, Mr. Staab and Ms. Powell: target 40% and maximum 48%. At the time these ranges were set, the Committee believed that payout at the target performance level was challenging but achievable and that payout at the maximum performance level represented a "stretch" performance target, but was nevertheless achievable. In order to further tie individual compensation to Company performance, payout to individuals under the AIP are based on Company performance and awards under the plan are typically settled in cash. All awards are reviewed and approved by the Committee.

In January 2017, the Committee considered the unfavorable results of the OPuS-2 clinical trial and ultimate discontinuation of the avoralstat program, as well as the delay of the APeX-1 clinical trial in 2016, and determined that no AIP awards would be made for 2016 performance. Subsequently, in February 2017, in consideration of the positive results of the interim analysis of APeX-1 and other aspects of the HAE program beyond APeX-1, the advancement of the BSAV programs, and the Company's progress with respect to RAPIVAB, the Committee approved an incentive award to the Company's Named Executive Officers consisting of a cash payment equal to 85% of each executive's AIP target from 2016, which was paid in March 2017.

The corporate objectives established for 2017 Company performance were: (i) advancing our HAE program (potentially worth up to 60% of target), (ii) advancing HAE backup candidates (potentially worth up to 10% of target), (iii) progressing our BCX4430 program (potentially worth up to 10% of target), (iv) making progress with respect to remaining RAPIVAB regulatory filing obligations (potentially worth up to 10% of target), and (v) advancing the Company's early discovery programs (potentially worth up to 10% of target). In assessing the Company's performance against the 2017 objectives, in December 2017, the Committee determined that the objectives were fully met with respect to advancing the HAE program as a result of the topline results from APeX-1, the completion of end of Phase 2 meetings with the Federal Drug Administration and European Medicines Agency, and the initiation of registration batches of Active Product Ingredient, fully met with respect to advancing early stage programs as a result of approving the progression of two compounds into Investigational New Drug-enabling studies, and partially met with respect to RAPIVAB regulatory filings as a result of the U.S. pediatric approval granted in 2017. In consideration of the foregoing, the Committee awarded payouts under the AIP at 75% of target for each recipient. In assessing 2017 Company performance in light of the 2017 objectives, the Committee in its discretion attributed the following values to the achievement of Company objectives: 60% of target attributable to the achievement of the objective relating to advancing the HAE program, 10% of target attributable to the achievement of the objective relating to advancing early stage programs, and 5% of target attributable to the partial achievement of the objective relating to RAPIVAB regulatory filing obligations. Because the remaining 2017 objectives were determined by the Committee not to have been achieved, the Committee attributed none of the AIP award to Company performance in respect of those objectives.



### *Long-Term Equity Incentive Awards*

All of the Company's employees, including the executive officers, are eligible to participate in the Company's periodic awards of stock options and other stock grants under the Company's Stock Incentive Plan. These awards are designed to:

- create a greater sense of employee ownership;
- enhance the link between creation of stockholder value and long-term employee compensation;
- provide an opportunity for increased equity ownership by employees, which increases the alignment of the financial interests of our employees and our stockholders; and
- maintain competitive levels of total compensation.

The Committee has historically granted equity awards to all employees, including the executive officers, on an annual basis. The overall grant pool is established on an annual basis based, in part, on the Committee's assessment of competitive stock option grant levels by organization level and the number of employees at each level using competitive data provided by Radford based on its analysis of the Company's current Peer Group. In determining the amount of each grant, the Committee also considers the Company performance, assessed on an annual basis.

In January 2017, in consideration of, among other things, the unfavorable results of OPuS-2 clinical trial and the ultimate discontinuation of the avoralstat program, as well as the delay of the APeX-1 clinical trial in 2016, the Committee determined that no long-term equity grant would be made with respect to 2016 performance at that time.

In February 2017, in light of the positive results of the interim analysis of APeX-1, advancements in the HAE and BSAV programs, and the Company's progress with respect to RAPIVAB post-marketing commitments, the Committee authorized an equity incentive grant to ensure competitive compensation and promote employee retention and recruitment (the "2017 Equity Incentive Grant"). In establishing the size of the 2017 Equity Incentive Grant, the Committee also reviewed the analysis presented by Radford regarding the Company's 2016 Peer Group equity compensation practices, the number of shares of common stock available for grant under the Company's Stock Incentive Plan, existing levels of stock ownership among executives, the vesting schedules of previously granted long-term equity incentive awards, changes in and the volatility of the Company's stock price, the financial impact to the Company of the 2017 Equity Incentive Grant, and the perceived impact of previously issued long-term equity incentive awards in retaining and motivating employees. Considering the foregoing, the Committee determined to grant long-term equity incentive awards at a level representing the 50<sup>th</sup> percentile of comparative companies based on the 2016 Peer Group data provided by Radford. The Committee further determined that in keeping with current

market trends and based on the limitations of the available equity pool, the long-term equity incentive awards for 2015 performance should consist 100% of stock options and no restricted stock units. Exercising its discretion in consideration of the foregoing factors, in February 2017, the Committee awarded: to Mr. Stonehouse, options to purchase 500,000 shares of common stock; to Mr. Staab, options to purchase 175,000 shares of common stock; to Dr. Babu, options to purchase 175,000 shares of common stock; to Dr. Sheridan, options to purchase 175,000 shares of common stock; and to Ms. Powell, options to purchase 150,000 shares of common stock.

The stock options granted in February 2017 have a four-year 25% annual vesting schedule. All stock options granted under the Stock Incentive Plan expire ten years after the date of the grant. This provides a reasonable time frame during which the executive officers and other employees who receive grants can benefit from the appreciation of the Company's shares. The exercise price of options granted under the Stock Incentive Plan cannot be less than 100% of the fair market value of the underlying stock on the date of grant.

In December 2017, in consideration of the assessment of the Company's performance against corporate performance objectives for 2017 as described under "Annual Incentive Compensation (AIP)" above and in reviewing the analysis provided by Radford regarding the Company's 2017 Peer Group equity compensation practices and the number of shares of common stock available for grant under the Company's Stock Incentive Plan, the Committee determined to grant long-term equity incentive awards at a level representing the 50<sup>th</sup> percentile of comparative companies based on the 2017 Peer Group data provided by Radford. The Committee further determined that in keeping with current market trends and based on the limitations of the available equity pool, the long-term equity incentive awards for 2017 performance should consist 100% of stock options and no restricted stock units. In recognition of the limitations of the available equity pool, the Committee determined that 50% of the stock options to be awarded would be issued in December 2017 and the remaining stock options would be issued on a second grant date to be determined by the Committee after the Company's 2018 annual shareholders meeting. In light of the proposed Merger with Idera Pharmaceuticals, Inc., the second tranche of stock options will not be issued. Exercising its discretion in consideration of the foregoing factors, in December 2017, the Committee awarded: to Mr. Stonehouse, options to purchase 300,000 shares of common stock; to Mr. Staab, options to purchase 100,000 shares of common stock; to Dr. Babu, options to purchase 100,000 shares of common stock; to Dr. Sheridan, options to purchase 100,000 shares of common stock; and to Ms. Powell, options to purchase 80,000 shares of common stock.

The stock options granted in December 2017 have a four-year 25% annual vesting schedule. All stock options granted under the Stock Incentive Plan expire ten years after the date of the grant. This provides a reasonable time frame during which the executive officers and other employees who receive grants can benefit from the appreciation of the Company's shares. The exercise price of options granted under the Stock Incentive Plan cannot be less than 100% of the fair market value of the underlying stock on the date of grant.

### ***Clawback Policy***

In January 2013, our Board implemented a "clawback" policy. The policy provides that in the event of material noncompliance with financial reporting under the securities laws, we may recover (in whole or in part) any performance based incentive payments and equity-based performance awards received by our named executive officers three years prior to a material financial restatement, if the Board determines that such executive officer was personally involved in misconduct with respect to material noncompliance that led to the restatement and that such incentive payment or equity-based performance award would have been lower had they been calculated based on the restated results.

### ***Other Elements of Compensation***

In order to attract and retain key talent and pay market levels of compensation, we offer broad-based retirement, health and welfare employee benefits to our eligible employees, including our Named Executive Officers, subject to the terms and conditions of each benefit program. Our Named Executive Officers are eligible to participate in these benefits on the same basis as other full-time employees.

***Medical Insurance.*** The Company makes available to eligible employees and their dependents group health, dental and vision insurance coverage.

***Life and Disability Insurance.*** The Company makes available disability and life insurance at coverage levels based upon the employee's level of compensation. In addition, as part of Mr. Stonehouse's employment agreement, he is entitled to have either a \$1 million life insurance policy payable to his beneficiary upon death, or, if there is no policy in place, we are required to pay his beneficiary \$1 million. An insurance policy was in place at December 31, 2017.

***Defined Contribution Plan.*** The Company offers a retirement plan designed to meet the requirements under Section 401(k) of the Internal Revenue Code. The 401(k) plan permits eligible employees to defer up to 100% of their annual eligible compensation, subject to certain limitations imposed by the Internal Revenue Code. Employee elective deferrals are immediately vested and non-forfeitable. The Company makes matching contributions equal to the first

5% of the employee elective deferrals, which vest over a period not to exceed six years.

Stock Purchase Plan. The Company sponsors a broad-based employee stock purchase plan (the “ESPP”), designed to meet the requirements under Section 423 of the Internal Revenue Code. The ESPP permits employees to purchase Company stock at a discount through payroll deductions. ESPP participants are granted a purchase right to acquire shares of common stock at a price that is 85% of the stock price on either the first day of the stock purchase period or the last day of the stock purchase period, whichever is lower. The purchase dates occur on the last business days of January and July of each year. To pay for the shares, each participant may authorize periodic payroll deductions from 1% to 15% of the employee’s cash compensation, subject to certain limitations imposed by the Internal Revenue Code. In addition, no employee may purchase more than 3,000 shares in each purchase period and/or \$25,000 in each calendar year. All payroll deductions collected from the participant during the purchase period are automatically applied to the purchase of common stock on the dates indicated above provided the participant remains an eligible employee and has not withdrawn from the ESPP prior to the purchase date.

Other. With the exception of the commuting expense reimbursements described below and the relocation expenses described under the caption “Executive Relocation Policy,” the Company makes available certain other fringe benefits to executive officers that are the same as are made available to its other employees, such as tuition reimbursement and payment of professional dues. The aggregate amount of these other fringe benefits was less than \$10,000 for each NEO during 2017.

In September 2013, the Committee determined, in order to retain the employment of Dr. Sheridan and better accommodate his personal situation, to reimburse Dr. Sheridan's reasonable commuting expenses for traveling regularly from his home in California to North Carolina to oversee and manage the clinical development operations of the Company. The Committee also determined to grant Dr. Sheridan "gross up" payments to reimburse the taxes on such commuting reimbursements, provided that the total amount for such reimbursement and "gross up" payments do not exceed \$50,000 in a calendar year. In 2017, the Company paid commuting reimbursements and "gross up" payments to Dr. Sheridan in the amounts of \$17,210 and \$10,361, respectively.

In 2017, the Company paid commuting expense reimbursements and "gross up" payments to Ms. Powell in the amounts of \$21,166 and \$10,400, respectively.

*Executive Relocation Policy.* In November 2007, the Board approved the Committee's recommended adoption of an Executive Relocation Policy (the "Relocation Policy") for certain new employees of the Company, including executive officers. The Relocation Policy provides for a house hunting trip, temporary living and trips home for up to 90 days, home selling support or direct reimbursement for some selling expenses, moving costs and temporary storage of goods, customary closing expenses on the new home, a miscellaneous allowance of one month's salary, not to exceed \$5,000, and gross up of all taxable expenses. The Relocation Policy requires 100% repayment of benefits if the employee leaves or is terminated for cause within 12 months from the hire date.

## **CEO Pay Ratio**

The following is a reasonable estimate, prepared under applicable SEC rules, of the ratio of the annual total compensation of our CEO to the median of the annual total compensation of our other employees. We determined our median employee based on 2017 annual base salary and 2017 AIP awards for each of our 78 employees (excluding the CEO) as of December 31, 2017. The annual total compensation of our median employee (other than the CEO) for 2017 was \$205,353. As disclosed in the Summary Compensation Table included in this CD&A, our CEO's annual total compensation for 2017 was \$3,921,189. Based on the foregoing, the ratio of the 2017 annual total compensation of our CEO to the median of the annual total compensation of all other employees was 19 to 1. Given the different methodologies that various public companies will use to determine an estimate of their pay ratio, the estimated ratio reported above should not be used as a basis for comparison between companies.

## **Employment Agreement of CEO**

Mr. Stonehouse entered into a one-year employment agreement with the Company on January 5, 2007 that automatically renews for successive annual terms. Mr. Stonehouse's minimum annual compensation is \$400,000 with the potential to earn a cash bonus of up to \$300,000 based on the Company's achievement of performance related goals. In addition, Mr. Stonehouse is entitled to receive reasonable vacation, sick leave, medical benefits, \$1 million

of life insurance during the term of his employment, participation in profit sharing or retirement plans, payment of fees for his participation in the advisory council at Duke University, and reimbursement for reasonable attorneys' fees incurred in connection with the negotiation of his employment agreement. His agreement also provided for stock option and restricted stock awards. The termination and change in control provisions of Mr. Stonehouse's agreement are set forth under the heading "Potential Payments Upon Termination or Change in Control." Mr. Stonehouse's current base salary and annual incentive compensation levels are described above under the headings "Elements of Executive Compensation—Base Salary and —Annual Incentive Compensation (AIP)."

### **Employment Agreements of Other Named Executive Officers**

Under Mr. Staab's agreement, effective May 2011, he is entitled to a base salary of \$370,000 and is eligible for an annual cash bonus of up to 30% of his base salary. The termination and change in control provisions of Mr. Staab's agreement are set forth under the heading "Potential Payments Upon Termination or Change in Control."

Under Dr. Sheridan's agreement, effective June 2008, he is entitled to a base salary of \$375,000 and a bonus based on a target amount equal to at least 25% of his base compensation. Dr. Sheridan was also provided with relocation assistance under the Relocation Policy consisting of temporary housing for up to six months and payment of certain moving expenses. The termination and change in control provisions of Dr. Sheridan's agreement are set forth under the heading "Potential Payments Upon Termination or Change in Control."

Under Dr. Babu's agreement, effective April 2012, he is entitled to a base salary of \$331,450 and a bonus based on a target amount equal to at least 30% of his base compensation. The termination and change in control provisions of Dr. Babu's agreement are set forth under the heading "Potential Payments Upon Termination or Change in Control."

Under Ms. Powell's agreement, effective January 2015, she is entitled to a base salary of \$350,000 and a bonus based on a target amount equal to at least 35% of her base compensation. The termination and change in control provisions of Ms. Powell's agreement are set forth under the heading "Potential Payments Upon Termination or Change in Control."

Current base salary and annual incentive compensation levels for each of our Named Executive Officers are described above under the headings “Elements of Executive Compensation—Base Salary and —Annual Incentive Compensation (AIP).”

The stock option provisions for the other Named Executive Officers are the same as all other employees. In the event of termination of service other than on account of death or disability, each executive has three months to exercise any options exercisable prior to the termination in service. In the event of permanent disability, the executive will be able to exercise all outstanding options vested at the time of such disability in their entirety within the earlier of 12 months or the expiration of the option. In the event of death, the executor of his estate will be able to exercise all of the outstanding options in their entirety within the earlier of 12 months or the expiration of the option. If the executive has completed five years of service, all outstanding options vest in their entirety at death, but with less than five years of service only the portion of the option that was exercisable at the time of death will be exercisable during the 12-month period. As with all employees, if the executive is no longer an employee of the Company, but prior to the last date of employment continues service with the Company in another capacity, such as service as a consultant or service as a member of the Board of Directors, his outstanding options continue to vest and be exercisable until three months after separation from such service or expiration of the option.

Upon termination, each Named Executive Officer is entitled to receive amounts earned during the term of employment. These items are: accrued vacation pay, vested amounts payable under the Company’s 401(k) plan, and the ability to exercise any outstanding vested stock options for a period of three months following the final date of employment.

In addition, upon death or disability, the executive, or beneficiary in the event of death, will receive benefits under the Company’s disability benefit program or payments under a life insurance policy, as applicable.

The standard stock option terms for all optionees, including the Named Executive Officers, provides for full acceleration of vesting upon certain events. Full acceleration is automatic upon a change in control not approved by stockholders, such as: (i) acquisition of over 50% of the combined voting power of the Company, and (ii) change in composition of the Board over a period of 24 consecutive months or less such that a majority of the Board members ceases as a result of one or more contested elections. In the event of an acquisition such as: (i) a merger or consolidation, (ii) the sale, transfer or other disposition of all or substantially all of the assets of the Company in liquidation or dissolution of the Company, or (iii) any reverse merger in which the Company is the surviving entity but in which securities possessing more than 50% of the total combined voting power of the Company’s outstanding securities are transferred to a person or persons different from the persons holding those securities immediately prior to such merger, then the unvested options of the optionees are accelerated unless the options are assumed by the acquiring company. These provisions are superseded by the provisions of the employment agreements of the Named Executive Officers, if applicable, as described under the heading “Potential Payments Upon Termination or Change in Control.”

### **Policy Regarding Tax Deductibility of Compensation**

Section 162(m) of the Internal Revenue Code limits our ability to deduct compensation paid to certain of our Named Executive Officers (the covered employees) for tax purposes to \$1 million annually. Covered employees include our CEO and our next three highest paid executive officers, other than our principal financial officer. This limitation does not apply to performance-based compensation, provided certain conditions are satisfied. As part of its role, the Committee reviews and considers the deductibility of compensation with respect to Section 162(m) of the Internal Revenue Code. Options granted under the Stock Incentive Plan are expected to be fully deductible for federal income tax purposes. Compensation attributable to stock issuances or restricted stock units under the Stock Incentive Plan may or may not qualify for the performance-based compensation exception, depending upon the specific terms of each grant. The application of Section 162(m) is complex and may change with time (with potentially retroactive effect). For 2017, the compensation paid in cash to the Company's executive officers did not exceed the \$1 million limit per officer. While the Committee considers the deductibility of awards as one factor in determining executive compensation, the Committee also looks at many other factors in making its decisions, and retains the flexibility to grant awards it determines to be consistent with the Company's overall compensation philosophy even if the award is not deductible by the Company for tax purposes.

### **Policy with Respect to Equity Compensation Awards**

The Company grants all equity incentive awards based on the fair market value as of the date of grant. The exercise price for stock option grants and similar awards is determined by reference to the last quoted price per share on the Nasdaq Global Select Market at the close of business on the date of grant.

### **Risk Assessment of Compensation Programs**

Management of the Company, together with the Company's compensation consultant and outside counsel and Compensation Committee, has examined the Company's compensation program and discussed whether any elements of the program created risks that were reasonably likely to have a material adverse effect on the Company. Following this analysis, management concluded that the elements of the Company's compensation program did not create risks that are reasonably likely to have a material adverse effect on the Company. In its analysis, management considered a number of factors, including primarily: (1) the total value of the payments made under the Company's compensation program for the prior year and (2) that any corporate actions that would potentially lead to achievement of corporate performance objectives would require approval by the Company's Board of Directors, which provides a check on the ability of any individual to take risks that could have a material adverse effect on the Company in an effort to achieve a certain performance objective.



**SUMMARY COMPENSATION TABLE**

The following table sets forth the total compensation awarded, paid to or earned by the individuals who served as our CEO and CFO during 2017, along with the next three most highly compensated executive officers during 2017.

Name and Principal	Year	Salary (\$)	Bonus (\$)(1)	Stock Awards (\$)(2)	Option Awards (\$)(2)	Non-Equity Incentive Plan Compensation (\$)(3)	All Other Compensation (\$)(4)	Total (\$)
Jon P. Stonehouse President, Chief Executive Officer and Director	2017	532,823	243,019	-	2,910,080	220,862	14,405 (5)	3,921,189
	2016	519,828	-	-	736,454	-	14,155 (5)	1,270,437
	2015	504,687	-	345,344	2,284,992	-	14,155 (5)	3,149,178
Thomas R. Staab II Senior Vice President and Chief Financial Officer	2017	434,002	143,962	-	1,001,288	130,836	13,500	1,723,588
	2016	423,417	-	-	282,798	-	13,250	719,465
	2015	411,084	-	108,224	796,417	-	13,250	1,328,975
Yarlagadda S. Babu, Ph.D. Senior Vice President of Drug Discovery	2017	382,480	126,872	-	1,001,288	115,304	13,500	1,639,444
	2016	373,152	-	-	282,798	-	13,250	669,200
	2015	362,283	-	108,224	796,417	-	13,250	1,280,174
William P. Sheridan Senior Vice President and Chief Medical Officer	2017	469,143	155,618	-	1,001,288	141,429	41,072 (6)	1,808,550
	2016	457,700	-	-	324,040	-	36,409 (6)	818,149
	2015	444,369	-	132,554	941,072	-	50,585 (6)	1,568,570
Lynne M. Powell (7) Senior Vice President and Chief Commercial Officer	2017	369,513	122,570	-	838,543	111,395	45,066 (8)	1,487,087
	2016	360,500	-	-	282,798	-	29,641 (8)	672,939
	2015	327,564	-	113,300	2,690,143	-	61,923 (8)	3,192,930

(1) Represents incentive cash awards paid in March 2017 as described above under the caption "Elements of Executive Compensation."

(2) These amounts reflect the aggregate grant date fair value for the fiscal years ended December 31, 2017, December 31, 2016 and December 31, 2015 computed in accordance with FASB ASC Topic 718 of awards pursuant to the Stock Incentive Plan. Assumptions used in the calculation of these amounts are included in Note 7 to the Company's audited financial statements for the year ended December 31, 2017 and December 31, 2016, and Note 6

to the Company's audited financial statements for the year ended December 31, 2015, which are included in the Company's Annual Reports on Form 10-K filed with the SEC on March 12, 2018, February 27, 2017 and February 26, 2016, respectively.

(3) Represents payments earned under the AIP for 2017 performance as described above under the caption "Elements of Executive Compensation." Values shown reflect the full calculated payout of the incentive awards under the AIP.

(4) Except as otherwise noted, the amounts shown reflect the Company contribution for the executive to the 401(k) plan.

(5) Consists of Company contributions to the 401(k) plan and life insurance premiums described above under the caption "Other Elements of Compensation-Life and Disability Insurance." For 2017, such amounts were \$13,500 and \$905, respectively.

(6) Consists of Company contributions to the 401(k) plan, commuting expense reimbursements and tax "gross up" payments related to such commuting expenses, each as described above under the caption "Other Elements of Compensation-Other." For 2017, such amounts were \$13,500, \$17,210 and \$10,362, respectively.

(7)Ms. Powell was hired as our Senior Vice President and Chief Commercial Officer effective January 26, 2015.

Consists of Company contributions to the 401(k) plan, commuting expense reimbursements and tax “gross-up” (8) payments related to such commuting expenses, each as described above under the caption “Other Elements of Compensation - Other.” For 2017, such amounts were \$13,500, \$21,166 and \$10,400, respectively.

**GRANTS OF PLAN-BASED AWARDS IN 2017**

The following table provides information about plan-based awards granted during 2017 to our Named Executive Officers.

Name	Grant Date	Compensation Committee Action	Estimated Future Payments Under Non-Equity Incentive Plan Awards		Estimated Future Payments Under Equity Incentive Plan Awards			All Other Stock Awards: Number of Shares of Stock or Units	Other Option Awards: Number of Securities Underlying Options	Exercise or Base Price of Option Awards	Grant Fair Value of Stock and Option Awards
			Target	Maximum	Target	Maximum	Target				
			(\$)(1)	(\$)(1)	(#) (#)	(#) (#)	(#) (#)	(#)(2)(#)(3)	(\$/Sh)(4)	(\$)(5)	
Jon P. Stonehouse	2/27/17	2/26/17	-	-	-	-	-	-	500,000	5.51	1,875,650
	12/20/17	12/19/17	-	-	-	-	-	-	300,000	5.04	1,034,430
	-	-	294,482	441,723	-	-	-	-	-	-	-
Thomas R. Staab II	2/27/17	2/26/17	-	-	-	-	-	-	175,000	5.51	656,478
	12/20/17	12/19/17	-	-	-	-	-	-	100,000	5.04	344,810
	-	-	174,448	209,337	-	-	-	-	-	-	-
Yarlagadda S. Babu, Ph.D.	2/27/17	2/26/17	-	-	-	-	-	-	175,000	5.51	656,478
	12/20/17	12/19/17	-	-	-	-	-	-	100,000	5.04	344,810
	-	-	153,738	184,486	-	-	-	-	-	-	-
William P. Sheridan	2/27/17	2/26/17	-	-	-	-	-	-	175,000	5.51	656,478
	12/20/17	12/19/17	-	-	-	-	-	-	100,000	5.04	344,810
	-	-	188,572	226,287	-	-	-	-	-	-	-
	2/27/17	2/26/17	-	-	-	-	-	-	150,000	5.51	562,695

Lynne M.  
Powell

12/20/17	12/19/17	-	-	-	-	-	-	-	80,000	5.04	275,848
-		-	148,526	178,231	-	-	-	-			

Represents possible payouts under our 2017 AIP. The amount shown in the “target” column represents the incentive payment that will be earned if performance is assessed at target. The amount shown in the “maximum” column (1) represents the maximum amount payable under the AIP. There is no specific “threshold” amount payable for minimal performance under the AIP. Payout could be zero if corporate objectives are not met.

(2) Unless otherwise indicated, restricted stock units vest 25% each year until fully vested after four years.

(3) Options vest 25% each year until fully vested after four years and have a term of ten years.

(4) The exercise price is the closing market price of our common stock on the grant date.

(5) See the Summary Compensation Table above for more information about the assumptions used to determine these amounts.

**OUTSTANDING EQUITY AWARDS AT DECEMBER 31, 2017**

The following table summarizes the equity awards we have made to our Named Executive Officers which are outstanding as of December 31, 2017.

Name	Option Awards						Stock Awards	
	Number of Securities underlying Unexercised Options (#) Exercisable	Number of Securities underlying Unexercised Options (#) Unexercisable	Equity Incentive Plan Awards: Number of Underlying Unexercised Options (#) Exercisable	Equity Incentive Plan Awards: Number of Underlying Unexercised Options (#) Unexercisable	Option Exercise Price (\$)	Option Exercise Date	Number of Shares of Stock that have not Vested (#)	Market Value of Shares of Stock that have not Vested (\$)(1)
Jon P. Stonehouse	56,949	-			3.26	3/14/2018		
	80,000	-			1.20	3/2/2019		
	116,809	-			6.68	3/1/2020		
	134,279	-			4.15	3/1/2021		
	184,000	-			4.73	3/1/2022		
	368,000	-			1.42	1/1/2023		
	-	-	75,000 (4)	25,000 (4)	5.45	8/8/2023		
	63,000	21,000 (2)			10.80	1/20/2024		
			40,710 (5)	94,990 (5)	12.16	1/1/2025		
	81,475	81,475 (2)			10.82	12/29/2025		
	84,262	252,788(2)			3.22	5/23/2026		
	-	500,000(2)			5.51	2/27/2027		
	-	300,000(2)			5.04	12/20/2027		
							32,000(3)	157,120
						14,200(3)	69,722	
Thomas R. Staab II	55,805	-			3.78	7/1/2021		
	4,000	-			4.73	3/1/2022		
	25,000	-			1.42	1/1/2023		
	50,000	-			1.42	1/1/2023		
			41,000 (4)	17,000 (4)	5.45	8/8/2023		
	26,250	8,750 (2)			10.80	1/20/2024		
			27,000 (5)	63,000 (5)	11.13	12/22/2024		
	21,200	21,200 (2)			12.16	1/1/2025		
	31,286	31,287 (2)			10.82	12/29/2025		
	32,356	97,071 (2)			3.22	5/23/2026		
	-	175,000(2)			5.51	2/27/2027		
	-	100,000(2)			5.04	12/20/2027		
						13,500(3)	66,285	
						4,450 (3)	21,850	

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Yarlagadda S. Babu, Ph.D.	30,000	-			3.26	3/14/2018		
	31,874	-			1.20	3/2/2019		
	55,000	-			6.68	3/1/2020		
	50,000	-			4.15	3/1/2021		
	62,000	-			4.73	3/1/2022		
	50,000	-			1.42	1/1/2023		
	50,000	-			1.42	1/1/2023		
			51,000 (4)	17,000 (4)	5.45	8/8/2023		
	26,250	8,750 (2)			10.80	1/20/2024		
			27,000 (5)	63,000 (5)	11.13	12/22/2024		
	21,200	21,200 (2)			12.16	1/1/2025		
	31,286	31,287 (2)			10.82	12/29/2025		
	32,356	97,071 (2)			3.22	5/23/2026		
	-	175,000(2)			5.51	2/27/2027		
	-	100,000(2)			5.04	12/20/2027		
							13,500(3)	66,285
							4,450 (3)	21,850

William P. Sheridan	42,112	-			2.58	7/1/2018			
	59,949	-			6.68	3/1/2020			
	41,250	-			4.15	3/1/2021			
	46,573	-			4.73	3/1/2022			
	100,000	-			5.59	3/9/2022			
	37,500	-			1.42	1/1/2023			
	25,000	-			1.42	1/1/2023			
				17,000(4)	17,000(4)	5.45	8/8/2023		
	26,250	8,750	(2)			10.80	1/20/2024		
				33,900(5)	79,100(5)	11.13	12/22/2014		
	26,000	26,000	(2)			12.16	1/1/2025		
	35,849	35,849	(2)			10.82	12/29/2025		
	37,075	111,227	(2)			3.22	5/23/2026		
	-	175,000	(2)			5.51	2/27/2027		
-	100,000	(2)			5.04	12/20/2027			
							13,500(3)	66,285	
							5,450 (3)	26,760	
Lynne M. Powell	95,000	95,000	(2)		11.33	1/26/2025			
				30,000(5)	70,000(5)	11.33	1/26/2025		
	31,286	31,287	(2)			10.82	12/29/2025		
	32,356	97,071	(2)			3.22	5/23/2026		
	-	150,000	(2)			5.51	2/27/2027		
	-	80,000	(2)			5.04	12/20/2027		

(1) Market value is calculated by multiplying the closing market price of our common stock as of December 31, 2017 (\$4.91) by the number of shares that have not vested.

(2) Options vest at a rate of 25% per year until fully vested after four years. The term of each option is ten years.

(3) Restricted stock units vest 25% each year until fully vested after four years.

Special performance stock options that vest upon successful completion of specific performance objectives (4) described under the caption "Special Performance Awards" in the Company's 2014 Proxy Statement filed on March 21, 2014.

Special performance stock options that vest upon successful completion of specific performance objectives (5) described under the caption "2014 Special Performance Award" in the Company's 2015 Proxy Statement filed on April 10, 2015.

## 2017 OPTION EXERCISES AND STOCK VESTED

The following table provides information on stock option exercises during 2017 by our Named Executive Officers and restricted stock units held by our Named Executive Officers that vested during 2017.

Name	Option Awards		Stock Awards	
	Number of Shares Acquired on Exercise (#)	Value Realized on Exercise (\$)(1)	Number of Shares Acquired on Vesting (#)	Value Realized on Vesting (\$)(2)
Jon P. Stonehouse	-	-	54,750(3)	334,408
Thomas R. Staab II	60,455	294,821	17,850(4)	107,861
Yarlagadda S. Babu, Ph.D.	-	-	17,850(5)	107,861
William P. Sheridan	-	-	18,350(6)	111,026

(1) Value is calculated by multiplying (a) the number of shares acquired upon exercise by (b) the difference between the market price of our common stock at the time of exercise and the exercise price.



(2) Value is calculated by multiplying (a) the closing market price of our common stock on the vesting date by (b) the number of shares of stock that vested.

(3) The Company withheld 19,167 of these shares for payment of Mr. Stonehouse's tax obligations.

(4) The Company withheld 6,874 of these shares for payment of Mr. Staab's tax obligations.

(5) The Company withheld 6,722 of these shares for payment of Dr. Babu's tax obligations.

(6) The Company withheld 7,842 of these shares for payment of Dr. Sheridan's tax obligations.

### POTENTIAL PAYMENTS UPON TERMINATION OR CHANGE IN CONTROL

The following table sets forth potential payments payable to our Named Executive Officers upon termination of employment. The amounts include compensation payable upon voluntary or involuntary termination or retirement, termination following a change in control, and in the event of disability or death. None of the Named Executive Officers are entitled to any payments upon termination with cause. The Company's Annual Incentive Plan provides that if the employment of a participating employee is terminated as a result of death, retirement or permanent disability, the employee is eligible to receive a pro rata award based on his or her base salary on the date of separation during the plan year in which the employee was considered an active employee and the number of whole months actually worked. In all other circumstances, absent provisions to the contrary in an employment agreement, all awards are forfeited if an employee voluntarily or involuntarily terminates employment with the Company before the annual incentive awards are paid. The Company's Compensation Committee may in its discretion revise, amend or add to the benefits if it deems it advisable. The amounts shown assume the options are valued at their last intrinsic value in fiscal 2017 and that termination is effective December 31, 2017, and thus include amounts earned through such time and are estimates of the amounts which would be paid out to the executives upon their termination. The actual amounts to be paid out can only be determined at the time of such executive's separation from the Company. The amounts shown in the table do not include: accrued vacation, vested amounts payable under the Company's 401(k) plan, any accrued but unpaid bonus or base salary, or potential compensation recognized upon exercise of vested options as disclosed in the Outstanding Equity Awards table above.

A description of the relevant provisions of the employment agreements of Messrs. Stonehouse and Staab, Drs. Sheridan and Babu, and Ms. Powell is set forth below the table. A description of the benefits executive officers are entitled to upon death, retirement or disability under the AIP or under the terms of the Company's equity grants is included in "Compensation Discussion and Analysis."

Name	Benefit	Termination Without	Constructive Termination	Disability (\$)	Death (1)(\$)	Retirement (\$)	Change in Control	Change in Control
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		Cause(\$)	(\$)				with no Change in Employment Status (\$)	and Termination (2)(\$)
Jon P. Stonehouse	Base salary	1,070,844	1,070,844	1,070,844	-	-	-	1,070,844
	Target bonus(3)	588,964	588,964	588,964	294,482	294,482	-	588,964
	Health care premiums(4)	34,401	34,401	34,401	-	-	-	34,401
	Equity vesting acceleration(5)	-	-	-	654,054	-	654,054	654,054
	<b>Total</b>	<b>1,694,209</b>	<b>1,694,209</b>	<b>1,694,209</b>	<b>948,536</b>	<b>294,482</b>	<b>654,054</b>	<b>2,348,262</b>
Thomas R. Staab II	Base salary	436,119	436,119	-	-	-	-	436,119
	Target bonus(3)	174,448	174,448	174,448	174,448	174,448	-	174,448
	Health care premiums(4)	34,401	34,401	-	-	-	-	34,401
	Equity vesting acceleration(5)	-	-	-	252,184	-	252,184	252,184
	<b>Total</b>	<b>644,968</b>	<b>644,968</b>	<b>174,448</b>	<b>426,632</b>	<b>174,448</b>	<b>252,184</b>	<b>897,152</b>
Yarlagadda S. Babu, Ph.D.	Base Salary	384,346	384,346	-	-	-	-	384,346
	Target bonus(3)	-	-	153,738	153,738	153,738	-	-
	Health care premiums(4)	34,401	34,401	-	-	-	-	34,401
	Equity vesting acceleration(5)	-	-	-	252,184	-	252,184	252,184
	<b>Total</b>	<b>418,747</b>	<b>418,747</b>	<b>153,738</b>	<b>405,922</b>	<b>153,738</b>	<b>252,184</b>	<b>670,931</b>

William P. Sheridan	Base salary	471,431	471,431	-	-	-	-	471,431
	Target bonus(3)	-	-	188,572	188,572	188,572	-	-
	Health care premiums(4)	23,733	23,733	-	-	-	-	23,733
	Equity vesting acceleration(5)	-	-	-	281,018	-	281,018	281,018
	<b>Total</b>	<b>495,164</b>	<b>495,164</b>	<b>188,572</b>	<b>469,590</b>	<b>188,572</b>	<b>281,018</b>	<b>776,182</b>
Lynne M. Powell	Base salary	371,315	371,315	-	-	-	-	371,315
	Target bonus(3)	148,526	148,526	148,526	148,526	148,526	-	148,526
	Health care premiums(4)	34,401	34,401	-	-	-	-	34,401
	Equity vesting acceleration(5)	-	-	-	-	-	164,050	164,050
	<b>Total</b>	<b>554,242</b>	<b>554,242</b>	<b>148,526</b>	<b>148,526</b>	<b>148,526</b>	<b>164,050</b>	<b>718,292</b>

(1) Pursuant to the terms of the Company's Stock Incentive Plan, acceleration of unvested options occurs only in the event of death after five years of service.

(2) Benefits for Mr. Stonehouse are triggered if his employment is terminated without Cause or as a result of Disability or Constructive Termination following a Change of Control. Benefits for Mr. Staab, Drs. Sheridan and Babu, and Ms. Powell are triggered if their employment is terminated without Cause or if they are Constructively Terminated within six months following a Change of Control. The employment agreement for Mr. Stonehouse provides that if any benefit would be subject to excise tax imposed by section 4999 of the Internal Revenue Code or any interest or penalties with respect to such excise tax, the employee shall be entitled to the greater of the employee's net after tax benefit of the entire payment assuming the payment is subject to section 4999 (which payment would be subject to the excise tax) and the employee's net after tax benefit of the payments after the payments are reduced just to the point that there is no section 4999 excise tax. The Company will not pay the excise tax if the payments are subject to section 4999.

(3) Represents Annual Incentive Plan award at the target percentage for each individual (except with respect to Mr. Stonehouse, who, as described below, receives twice the Annual Incentive Plan award at the target percentage in the event of termination without Cause, Constructive Termination, or Disability).

(4) Represents twelve months of premiums under COBRA.

(5) Based on the closing price of the Company's stock as of December 31, 2017.

#### Mr. Stonehouse

Pursuant to the terms of his employment letter agreement, in the event of termination by the Company without Cause, upon non-renewal of the term of the agreement by the Company, as a result of a Constructive Termination, or by the Company as a result of a Disability, Mr. Stonehouse is entitled to severance equal to the product of (x) two, and (y) the sum of (i) his annual base salary in effect immediately prior to the effective date of the termination, and (ii) his target bonus in effect for the fiscal year of termination, to be paid in equal installments over the regularly scheduled payroll periods of the Company for the two years following the effective date of termination. The Company will also pay the monthly premium for health insurance coverage under COBRA until the earlier of 12 months following the effective date of termination or the date upon which COBRA continuation coverage ceases. If there is a Change of Control, all equity awards granted to Mr. Stonehouse vest in full, and if his employment is terminated without Cause or as a result of Disability or Constructive Termination following the Change of Control, he shall receive the benefits described above. The receipt of such benefits is subject to his signing and not revoking a release of any and all claims against the Company, its officers, directors and employees, resigning from the Board, and returning to the Company all of its property and confidential information. To the extent required, the payments described in this paragraph may be delayed for the minimum period and the in the minimum manner necessary to avoid the imposition of the tax required by Section 409A of the Internal Revenue Code.

For purposes of Mr. Stonehouse's letter agreement:

“Cause” is defined as: determination by the Board his employment be terminated for any of the following reasons: (i) a violation of a federal or state law or regulation that materially and adversely impacts the business of the Company, (ii) conviction or plea of no contest to a felony under the laws of the United States or any state, (iii) a breach of the terms of any confidentiality, invention assignment or proprietary information agreement with the Company or with a former employer that materially and adversely impacts the Company, (iv) fraud or misappropriation of property belonging to the Company or its affiliates, or (v) willful misconduct or gross negligence in connection with the performance of his duties; provided, however, that no act or failure to act shall be considered “willful” unless it is done, or omitted to be done in bad faith or without reasonable belief that his action or omission was in the best interests of the Company.

“Constructive Termination” is defined as resignation of employment within 30 days of the occurrence of any of: (i) a reduction in his responsibilities or any change in his status or title with regard to his employment; (ii) a reduction in his base salary, unless such reduction occurs prior to a Change of Control (as defined below) and is made in connection with a fiscal downturn of the Company pursuant to which the base salaries of all executive officers of the Company are reduced by a comparable percentage; or (iii) a relocation of his principal office to a location more than 50 miles from the location of his then-current principal office.

“Change of Control” is defined as (i) a merger or consolidation in which the Company is not the surviving entity, except for a transaction the principal purpose of which is to change the State of the Company's incorporation, (ii) the sale, transfer or other disposition of all or substantially all of the assets of the Company in liquidation or dissolution of the Company, (iii) any reverse merger in which the Company is the surviving entity but in which securities possessing more than fifty percent (50%) of the total combined voting power of the Company's outstanding securities are transferred to a person or persons different from the persons holding those securities immediately prior to such merger, or (iv) any person or related group of persons (other than the Company or a person that directly or indirectly controls, is controlled by, or is under common control with, the Company) directly or indirectly acquires beneficial ownership (within the meaning of Rule 13d-3 of the Exchange Act) of securities possessing more than fifty percent (50%) of the total combined voting power of the Company's outstanding securities pursuant to a tender or exchange offer made directly to the Company's stockholders.

“Disability” means the inability to perform his duties under the agreement by reason of physical or mental incapacity for 90 days, whether consecutive or not, during any consecutive 12-month period.

### **Mr. Staab**

Pursuant to the terms of his employment letter agreement, in the event of termination by the Company without Cause, or if he resigns as a result of a material and adverse change in the Company's business within six months after the four year term of the agreement expires, Mr. Staab is entitled to (i) continuation of his base salary for one year beyond the effective termination date, payable in accordance with the regular payroll practices of the Company and (ii) payment of his target bonus in effect for the fiscal year of termination, payable in equal installments over the regularly

scheduled payroll periods of the Company for the one year following the effective date of termination. The Company will also pay the monthly premium for health insurance coverage under COBRA until the earlier of 12 months following the effective termination date, or the date upon which Mr. Staab commences employment with an entity other than the Company, if he elects to continue health insurance coverage under COBRA. If there is a Change of Control, all equity awards granted to Mr. Staab vest in full, and if his employment is terminated without Cause or as a result of Constructive Termination following the Change of Control, he shall receive the benefits described above. The receipt of such benefits is subject to his (a) signing and not revoking a release of any and all claims, in a form prescribed by the Company, and (b) returning to the Company all of its property and confidential information that is in his possession. To the extent required, the payments described in this paragraph may be delayed for the minimum period and the in the minimum manner necessary to avoid the imposition of the tax required by Section 409A of the Internal Revenue Code.

**Dr. Babu**

Pursuant to the terms of his employment letter agreement, in the event of termination by the Company without Cause, or if he resigns as a result of a material adverse change in the Company's business within six months after the term of his agreement expires, Dr. Babu is entitled to (i) continuation of base salary for one year beyond the effective termination date, payable in accordance with the Company's regular payroll practices, (ii) if he elects to continue health insurance coverage under COBRA, the monthly premium for such coverage until the earlier of 12 months following the effective date of termination or the date upon which he commences employment with another entity. In the event of a Change of Control, all equity awards shall vest in full, and if his employment is terminated without Cause or he is Constructively Terminated within six months of the Change of Control, he is entitled to the benefits described above. The receipt of such benefits is conditioned on his signing and not revoking a release of any and all claims, in a form prescribed by the Company and returning to the Company all of its property and confidential information. To the extent required, the payments described in this paragraph may be delayed for the minimum period and the in the minimum manner necessary to avoid the imposition of the tax required by Section 409A of the Internal Revenue Code.

**Dr. Sheridan**

Pursuant to the terms of his employment letter agreement, in the event of termination by the Company without Cause, or if he resigns as a result of a material adverse change in the Company's business within six months after the term of his agreement expires, Dr. Sheridan is entitled to (i) continuation of base salary for one year beyond the effective termination date, payable in accordance with the Company's regular payroll practices, (ii) relocation assistance to move Dr. Sheridan's personal belongings back to his California residence and (iii) if he elects to continue health insurance coverage under COBRA, the monthly premium for such coverage until the earlier of 12 months following the effective date of termination or the date upon which he commences employment with another entity. In the event of a Change of Control, all equity awards shall vest in full, and if his employment is terminated without Cause or he is Constructively Terminated within six months of the Change of Control, he is entitled to the benefits described above. The receipt of such benefits is conditioned on his signing and not revoking a release of any and all claims, in a form prescribed by the Company and returning to the Company all of its property and confidential information. To the extent required, the payments described in this paragraph may be delayed for the minimum period and the in the minimum manner necessary to avoid the imposition of the tax required by Section 409A of the Internal Revenue Code.

**Ms. Powell**

Ms. Powell joined the Company in January 2015. Pursuant to the terms of her employment letter agreement, in the event of termination by the Company without Cause, or if she resigns as a result of a material adverse change in the Company's business within six months after the term of her agreement expires, Ms. Powell is entitled to (i) continuation of base salary for one year beyond the effective termination date, payable in accordance with the Company's regular payroll practices, (iii) payment of her target bonus in effect for the fiscal year of termination, payable in equal installments over the regularly scheduled payroll periods of the Company for the one year following the effective date of termination, and (iii) if she elects to continue health insurance coverage under COBRA, the monthly premium for such coverage until the earlier of 12 months following the effective date of termination or the date upon which she commences employment with another entity. In the event of a Change of Control, all equity awards shall vest in full, and if her employment is terminated without Cause or she is Constructively Terminated within six months of the Change of Control, she is entitled to the benefits described above. The receipt of such benefits is conditioned on her signing and not revoking a release of any and all claims, in a form prescribed by the Company and returning to the Company all of its property and confidential information. To the extent required, the payments described in this paragraph may be delayed for the minimum period and in the minimum manner necessary to avoid the imposition of the tax required by Section 409A of the Internal Revenue Code.

For purposes of the agreements of Mr. Staab, Ms. Powell and Drs. Babu and Sheridan:

• "*Cause*" means a determination by the Board that his employment be terminated for any of the following reasons: (i) failure or refusal to comply in any material respect with lawful policies, standards or regulations of Company; (ii) a

violation of a federal or state law or regulation applicable to the business of the Company; (iii) conviction or plea of no contest to a felony under the laws of the United States or any State; (iv) fraud or misappropriation of property belonging to the Company or its affiliates; (v) a breach in any material respect of the terms of any confidentiality, invention assignment or proprietary information agreement with the Company or with a former employer, (vi) failure to satisfactorily perform his duties after having received written notice of such failure and at least thirty (30) days to cure such failure, or (vii) misconduct or gross negligence in connection with the performance of his duties.

• “*Constructive Termination*” means a resignation of employment within 30 days of the occurrence of any of the following events which occurs within 6 months following a Change of Control: (i) a material reduction in his responsibilities; (ii) a material reduction in his base salary, unless such reduction is comparable in percentage to, and is part of, a reduction in the base salary of all executive officers of the Company; or (iii) a relocation of his principal office to a location more than 50 miles from the location of his principal office immediately preceding a Change of Control.

• “*Change of Control*” means (i) a merger or consolidation in which the Company is not the surviving entity, except for a transaction the principal purpose of which is to change the State of the Company’s incorporation; (ii) the sale, transfer or other disposition of all or substantially all of the assets of the Company in liquidation or dissolution of the Company; (iii) any reverse merger in which the Company is the surviving entity but in which securities possessing more than fifty percent (50%) of the total combined voting power of the Company’s outstanding securities are transferred to a person or persons different from the persons holding those securities immediately prior to such merger; (iv) any person or related group of persons (other than the Company or a person that directly or indirectly controls, is controlled by, or is under common control with, the Company) directly or indirectly acquires beneficial ownership (within the meaning of Rule 13d-3 of the Exchange Act) of securities possessing more than fifty percent (50%) of the total combined voting power of the Company’s outstanding securities pursuant to a tender or exchange offer made directly to the Company’s stockholders; or (v) a change in the composition of the Board over a period of twenty-four (24) consecutive months or less such that a majority of the Board members (rounded up to the next whole number) ceases, by reason of one or more contested elections for Board membership, to be comprised of individuals who either (A) have been Board members continuously since the beginning of such period or (B) have been elected or nominated for election as Board members during such period by at least two-thirds of the Board members described in clause (A) who were still in office at the time such election or nomination was approved by the Board.



**2017 DIRECTOR COMPENSATION**

The following table provides information related to the compensation of our non-employee directors during fiscal 2017.

Name	Fees Earned (\$)	Option Award (\$)	(1) (2)	Non-Equity Incentive Plan Compensation	All Other Compensation	Total (\$)
George B. Abercrombie	69,583	104,664		-	-	174,247
Fred E. Cohen, M.D., D.Phil	70,000(3)	104,664		-	-	174,664
Stanley C. Erck	65,000	104,664		-	-	169,664
Nancy J. Hutson, Ph.D.	65,000(3)	104,664		-	-	169,664
Robert A. Ingram	72,917(3)	104,664		-	-	177,581
Kenneth B. Lee	75,000	104,664		-	-	179,664
Sanj K. Patel	62,500	104,664		-	-	167,164

Each non-employee director receives an automatic annual grant of an option to purchase 30,000 shares after the annual meeting. Options are granted to new directors automatically in accordance with our Stock Incentive Plan at the time they become a director. New directors receive an option to purchase 60,000 shares issued on a prorated (1) basis from the date of appointment until the next scheduled annual meeting. The options vest on a monthly basis until the next annual meeting and are then fully vested. As of December 31, 2017, each director had options outstanding to purchase the following number of shares: Mr. Abercrombie: 132,667; Dr. Cohen: 110,833; Mr. Erck: 173,333; Dr. Hutson 128,333; Mr. Ingram: 78,750; Mr. Lee: 120,000; and Mr. Patel: 76,667.

The amounts in this column reflect the aggregate grant date fair value computed in accordance with FASB ASC Topic 718 of awards pursuant to the Stock Incentive Plan granted in 2017. Assumptions used in the calculation of (2) these amounts are included in Note 6 to the Company's audited consolidated financial statements for the year ended December 31, 2017, which are included in the Company's Annual Report on Form 10-K filed with the SEC on March 12, 2018.

Drs. Cohen and Hutson and Mr. Ingram have each elected to receive their respective retainers in the form of shares of our common stock (in lieu of cash) equivalent in value to the fees earned. Pursuant to such elections, the (3) Company issued the following number of shares: to Dr. Cohen, 3,009 shares of common stock in lieu of \$16,667 of cash; to Dr. Hutson, 7,608 shares of common stock in lieu of \$40,000 of cash; to Mr. Ingram, 11,632 shares of common stock in lieu of \$60,417 of cash.

**Narrative to Director Compensation Table**

Directors who are employees of the Company do not receive any additional compensation for their services as a director. In addition to the equity awards described above, non-employee directors receive an annual retainer fee consisting of four equal installments paid in arrears on a quarterly basis. Annual retainers are also paid to members of Board committees. Directors are also reimbursed for expenses incurred in attending board or committee meetings and while representing the Company in conducting certain business. The annual retainer fee is \$40,000 (\$75,000 for the Chairman), consisting of four quarterly payments of \$10,000 each (\$18,750 each for the Chairman). Fees are not paid for attending committee meetings. Members of the Audit Committee other than the Chair are paid an annual retainer of \$10,000, members of the Compensation Committee, Finance Committee and Science Committee are paid an annual retainer of \$7,500, and members of the Corporate Governance and Nominating Committee are paid an annual retainer of \$5,000. The Chair of the Audit Committee is paid an annual retainer of \$20,000, the Chairs of the Compensation Committee, Finance Committee and Science Committee are each paid an annual retainer of \$15,000, and the Chair of the Corporate Governance and Nominating Committee is paid an annual retainer of \$10,000. The annual retainers for committee members and committee Chairs are paid in arrears in four equal installments on a quarterly basis.

Beginning on May 6, 2014, Directors were given the opportunity to elect to receive, in lieu of cash retainers, a number of shares of our common stock equivalent in value to the Board retainer earned by such Director. Directors that make such an election receive 100% of their compensation in the form of common stock. These shares are distributed four times a year, in line with previous paid quarterly retainers. The number of shares to be distributed is determined using the closing price of our common stock on the last business day of the applicable three-month period. Three Directors, Dr. Cohen, Dr. Hutson, and Mr. Ingram, elected to receive shares of our common stock in lieu of cash retainer in 2017. Subsequent elections to receive Company shares in lieu of cash for future years shall be made on the date of each annual meeting, effective until the subsequent annual meeting.

## Compensation Committee Interlocks and Insider Participation

During 2017, the following directors served on the Compensation Committee: Dr. Cohen, Mr. Erck, Dr. Hutson and Mr. Ingram. No member of the Committee was at any time during 2017 an officer or employee of the Company. No executive officer of the Company served on the board of directors or compensation committee of any entity which has one or more executive officers serving as members of the Company's Board of Directors or Compensation Committee.

## Compensation Committee Report

The Compensation Committee reviewed the Compensation Discussion and Analysis and discussed its contents with Company management. Based on such review and discussions, the Committee has recommended that the Compensation Discussion and Analysis be included in this Proxy Statement.

Fred E. Cohen, M.D., D.Phil, Chair of the Committee

Stanley C. Erck

Nancy Hutson, Ph.D.

Robert A. Ingram

## SECURITY OWNERSHIP OF CERTAIN BENEFICIAL

## OWNERS AND MANAGEMENT

The following table sets forth information regarding beneficial ownership of the Company's Common Stock as of September 19, 2018 by (i) each director, (ii) each of the Named Executive Officers, (iii) all directors and executive officers of the Company as a group and (iv) each person known to the Company to be the beneficial owner of more than five percent of our Common Stock. Unless otherwise noted below, the address for each person listed in the table is the principal executive offices of the Company.

<b>Name and Address of Beneficial Owner</b>	<b>Amount and Nature of Beneficial Ownership<sup>(1)</sup></b>	<b>Percent of Class<sup>(2)</sup></b>
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**5% Stockholders**

Baker Bros. Advisors LP and related persons 667 Madison Avenue, 21st Floor New York, NY 10021	14,080,631 (3)	[ ] %
Janus Henderson Group plc and related persons 201 Bishopsgate EC2M 3AE, United Kingdom RA Capital Management, LLC 20 Park Plaza, Suite 1200 Boston, MA 02116	11,096,183 (4)	[ ] %
BlackRock Inc. and related persons 55 East 52nd Street New York, NY 10055	9,234,692 (5)	[ ] %
Great Point Partners, LLC and related persons 165 Mason Street, 3rd Floor Greenwich, CT 06830	7,614,280 (6)	[ ] %
Deerfield Mgmt, L.P. and related persons 780 Third Avenue, 37th Floor New York, NY 10017	7,478,275 (7)	[ ] %
The Vanguard Group, Inc. 100 Vanguard Blvd. Malvern, PA 19355	7,213,393 (8)	[ ] %
	5,777,835 (9)	[ ] %

**Named Executive Officers and Directors**

George B. Abercrombie	[ ]	(10)	*
Fred E. Cohen, M.D., D.Phil.	[ ]	(11)	*
Stanley C. Erck	[ ]	(12)	*

Nancy J. Hutson, Ph.D.	[ (Q3) *
Robert A. Ingram	[ (Q4) *
Kenneth B. Lee, Jr.	[ (Q5) *
Jon P. Stonehouse	[ (Q6) [ %
Thomas R. Staab II	[ (Q7) *
Yarlagadda S. Babu, Ph.D.	[ (Q8) *
William P. Sheridan, M.D.	[ (Q9) *
Lynne M. Powell	[ (Q0) *
All executive officers and directors as a group (11 persons)	[ (Q1) [ %

(\* )Less than one percent.

(1) Gives effect to the shares of Common Stock issuable within 60 days after September 19, 2018 upon the exercise of all options and other rights beneficially held by the indicated stockholder on that date.

(2) Ownership percentage is reported based on [ ] shares of common stock issued and outstanding on September 19, 2018, plus, as to the holder thereof only and no other person, the number of shares (if any) that the person has the right to acquire as of September 19, 2018 or within 60 days from that date through the exercise of all options and other rights.

(3) From Schedule 13G/A filed with the SEC on February 13, 2018. Includes the aggregate number of shares of common stock beneficially owned along with shares of common stock that may be immediately acquired as follows: 1,836,848 shares held by 667, L.P., and 12,154,491 shares held by Baker Brothers Life Sciences, L.P., 23,459 shares directly held by each of Julian C. Baker and Felix J. Baker, 5,833 shares held by Dr. Stephen R. Biggar, an employee of Baker Bros Advisors L.P. and former director of the Company, and 60,000 shares underlying stock options held by Dr. Biggar. By virtue of their power to control the investment decisions of the limited partnerships listed above, each of Baker Bros. Advisors LP, Baker Bros. Advisors (GP) LLC, Julian C. Baker and Felix J. Baker may be deemed to be beneficial owners of shares owned by such entities and may be deemed to have sole power to vote or direct the vote of and sole power to dispose or direct the disposition of such securities. Dr. Biggar previously served on the BioCryst board as a representative of 667, L.P. and Baker Brothers Life Sciences, L.P. (the "Funds"). The policy of the Funds and Baker Bros Advisors L.P. does not permit employees to receive compensation for serving as a director of the issuer. Therefore, Dr. Biggar has no pecuniary interest in any stock options or shares of common stock directly held by him. The Funds are instead entitled to the pecuniary interest in any stock options and shares of common stock received as director compensation.

(4) From Schedule 13G/A filed with the SEC on July 10, 2018 indicating that 11,096,183 shares are held by Janus Capital Management LLC and one or more other funds, which are managed by Janus Henderson Group plc (the "Janus Adviser"). The Janus Adviser, in its capacity as the investment adviser of such funds, has the power to vote and the power to direct the disposition of all shares held by such funds. Accordingly, the Janus Adviser may be deemed to beneficially own all such shares.

(5) From Schedule 13G/A filed with the SEC on August 6, 2018 indicating that 9,234,692 shares of common stock are held by RA Capital Healthcare Fund, L.P. and one or more other funds, which are managed by RA Capital Management, LLC (the "RA Adviser"). The RA Adviser, in its capacity as the investment adviser to such funds, has the power to vote and the power to direct the disposition of all shares held by such funds. Accordingly, the RA

Adviser and Peter Kolchinsky, as the manager of the RA Adviser, may be deemed to beneficially own all such shares.

From Schedule 13G/A filed with the SEC on January 29, 2018 indicating that 7,614,280 shares are held by BlackRock, Inc. and certain subsidiaries. No such subsidiary has the right to receive, or the power to direct the (6) receipt of, dividends from, or the proceeds from the sale of, more than five percent of our common stock. BlackRock, Inc. may be deemed to have sole power to vote or to direct the vote of 7,478,233 shares of common stock and sole power to dispose or to direct the disposition of 7,614,280 shares of common stock.

From Schedule 13D/A filed with the SEC on July 31, 2018 indicating that 7,478,275 shares are held by BioMedical Value Fund, L.P. and one or more other funds, which are managed by Great Point Partners, LLC (the (7) "BVF Adviser"). The BVF Adviser, in its capacity as the investment manager of such funds, has the power to vote and the power to direct the disposition of all shares held by such funds. Accordingly, the Adviser, Jeffrey R. Jay, as the senior managing member of the BVF Adviser, and David Kroin, as the special managing member of the BVF Adviser, may be deemed to beneficially own all such shares.

(8) From Schedule 13G/A filed with the SEC on February 14, 2018 indicating that 7,213,393 shares of common stock are held by Deerfield Partners, L.P., Deerfield Special Situations Fund, L.P. and Deerfield International Master Fund, L.P., of which Deerfield Mgmt, L.P. is the general partner and which are managed by Deerfield Management Company, L.P. (the “Deerfield Adviser”). Accordingly, Deerfield Mgmt, L.P., as the general partner, and the Deerfield Adviser may be deemed to beneficially own, have shared power to vote or direct the vote, and shared power to dispose of or direct the disposition of, such shares.

(9) From Schedule 13G filed with the SEC on February 8, 2018 indicating that 5,596,974 shares are owned by The Vanguard Group, Inc., 171,061 shares are owned by the Vanguard Fiduciary Trust Company and 21,600 shares are owned by Vanguard Investments Australia, Ltd. The Vanguard Group, Inc. may be deemed to beneficially own all such shares.

(10) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(11) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(12) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(13) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(14) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(15) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(16) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(17) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(18) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(19) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(20) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

(21) Includes [ ] shares issuable upon exercise of stock options that are exercisable as of September 19, 2018 or within 60 days from that date.

## **STOCKHOLDER PROPOSALS**

Proposals of stockholders intended to be presented at our 2019 Annual Meeting of Stockholders must be received by the Company by January 10, 2019 to be considered for inclusion in our Proxy Statement relating to such meeting. Proposals for inclusion in the Proxy Statement must comply with the Securities Exchange Act of 1934, including Rule 14a-8.

A stockholder must notify the Company no earlier than February 20, 2019 and no later than March 22, 2019 of a proposal for the 2019 Annual Meeting which the stockholder intends to present other than by inclusion in our proxy material (including director nominations) and must include with the notification the information required by the Company's bylaws, in order to be eligible for consideration at the 2019 Annual Meeting. In accordance with the Company's bylaws, any stockholder entitled to vote for directors at an annual meeting of the Company may nominate persons for election as directors. Any such notice shall also include the information regarding the stockholder making the nomination and the nominee required by the Company's bylaws.



## **NO INCORPORATION BY REFERENCE**

In the Company's filings with the SEC, information is sometimes "incorporated by reference." This means that the Company is referring you to information that has previously been filed with the SEC, and that the information should be considered part of a particular filing. As provided in regulations promulgated by the SEC, the "Audit Committee Report" and the "Compensation Committee Report" contained in this Proxy Statement specifically are not incorporated by reference into any other filings with the SEC. In addition, this Proxy Statement includes the Company's website address. This website address is intended to provide inactive, textual references only. The information on the Company's website is not part of this Proxy Statement.

## **OTHER MATTERS**

Management does not intend to present to the Meeting any matters other than those previously mentioned herein and does not presently know of any matters that will be presented by other parties. If other matters should properly come before the Meeting, it is intended that the holders of the proxies will act in respect thereto and in accordance with their best judgment.

## **GENERAL INFORMATION**

Some banks, brokers and other nominee record holders may be participating in the practice of "householding" Proxy Statements and annual reports. This means that only one copy of the proxy materials may have been sent to multiple stockholders in your household. You may have a separate copy of this document sent to you by contacting the Corporate Secretary, BioCryst Pharmaceuticals, Inc., 4505 Emperor Blvd., Suite 200, Durham, North Carolina 27703, (919) 859-1302. If you prefer to receive separate copies of the proxy materials in the future, or if you are receiving multiple copies and would like to receive only one copy for your household, you should contact your bank, broker or other nominee holder, or you may contact us at the above address.

**Stockholders may obtain a copy of the Notice of Special Meeting, Proxy Statement, Form of Proxy, Annual Report, and our Form 10-K by writing to the Corporate Secretary at the address stated above or by visiting [www.proxyvote.com](http://www.proxyvote.com).**

BY ORDER OF THE BOARD OF DIRECTORS

Alane P. Barnes, Senior Vice President and Chief Legal Officer

Durham, North Carolina

September [ ], 2018

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Annex A

**BIOCRYST PHARMACEUTICALS, INC.**

**STOCK INCENTIVE PLAN**

**(AS AMENDED AND RESTATED SEPTEMBER 17, 2018)**

Article One

GENERAL PROVISIONS

I. PURPOSES OF THE PLAN

A. This Stock Incentive Plan (the “Plan”), formerly the “BioCryst Pharmaceuticals, Inc. 1991 Stock Option Plan,” is intended to promote the interests of BioCryst Pharmaceuticals, Inc., a Delaware corporation (the “Company”), by providing a method whereby (i) employees (including officers and directors) of the Company (or its parent or subsidiary corporations), (ii) non-employee members of the board of directors of the Company (the “Board”) (or of any parent or subsidiary corporations) and (iii) consultants and other independent contractors who provide valuable services to the Company (or any parent or subsidiary corporations) may be offered the opportunity to acquire a proprietary interest, or otherwise increase their proprietary interest, in the Company as an incentive for them to remain in the service of the Company (or any parent or subsidiary corporations).

B. For purposes of the Plan, the following provisions shall be applicable in determining the parent and subsidiary corporations of the Company:

(i) Any corporation (other than the Company) in an unbroken chain of corporations ending with the Company shall be considered to be a parent corporation of the Company, provided each such corporation in the unbroken chain (other than the Company) owns, at the time of the determination, stock possessing fifty percent (50%) or more of the total combined voting power of all classes of stock in one of the other corporations in such chain.

(ii) Each corporation (other than the Company) in an unbroken chain of corporations beginning with the Company shall be considered to be a **subsidiary** of the Company, provided each such corporation (other than the last corporation) in the unbroken chain owns, at the time of the determination, stock possessing fifty percent (50%) or more of the total combined voting power of all classes of stock in one of the other corporations in such chain.

C. The Plan, as amended and restated, was approved and adopted by the Board on September 17, 2018 in order to increase by 4,400,000 the number of shares of the Company's common stock, par value \$0.01 per share (the "Common Stock"), subject to approval by the Company's stockholders at the Company's Special Stockholders Meeting on October 30, 2018.

## II. STRUCTURE OF THE PLAN

A. The Plan shall be divided into three separate equity programs:

(i) the Discretionary Option Grant Program specified in Article Two, pursuant to which eligible persons may, at the discretion of the Plan Administrator, be granted options to purchase shares of Common Stock,

(ii) the Stock Issuance Program specified in Article Three, pursuant to which eligible persons may, at the discretion of the Plan Administrator, be issued shares of Common Stock directly or through the issuance of restricted stock units ("RSUs") that provide for the issuance of shares of Common Stock if the applicable vesting criteria are satisfied, and

(iii) the Automatic Option Grant Program specified in Article Four, pursuant to which non-employee members of the Board will automatically receive option grants to purchase shares of Common Stock.

B. Unless the context clearly indicates otherwise, the provisions of Articles One and Five of the Plan shall apply to all equity programs under the Plan and shall accordingly govern the interests of all individuals under the Plan.

### III. ADMINISTRATION OF THE PLAN

A. The Plan shall be administered by the Committee who shall be the Compensation Committee of the Board or, in the absence of a Compensation Committee, a properly constituted committee or the Board itself (the administrator is referred to herein as the “Committee” or the “Plan Administrator”). Any power of the Committee may also be exercised by the Board, except to the extent that the grant or exercise of such authority would cause any Award or transaction to become subject to (or lose an exemption under) the short-swing profit recovery provisions of Section 16 of the Securities Exchange Act of 1934 or cause an Award designated as a Performance Award not to qualify for treatment as performance-based compensation under Section 162(m) of the Code. To the extent that any permitted action taken by the Board conflicts with action taken by the Committee, the Board action shall control. The Compensation Committee may by resolution authorize one or more officers of the Company to perform any or all things that the Committee is authorized and empowered to do or perform under the Plan, and for all purposes under this Plan, such officer or officers shall be treated as the Committee; provided, however, that the resolution so authorizing such officer or officers shall specify the total number of Awards (if any) such officer or officers may award pursuant to such delegated authority, and any such Award shall be subject to the form of award agreement theretofore approved by the Compensation Committee. No such officer shall designate himself or herself as a recipient of any Awards granted under authority delegated to such officer. In addition, the Compensation Committee may delegate any or all aspects of the day-to-day administration of the Plan to one or more officers or employees of the Company or any subsidiary or affiliate, and/or to one or more agents.

B. Subject to the express provisions of this Plan, the Committee shall be authorized and empowered to do all things that it determines to be necessary or appropriate in connection with the administration of this Plan, including, without limitation: (i) to prescribe, amend and rescind rules and regulations relating to this Plan and to define terms not otherwise defined herein; (ii) to determine which persons are grantees, to which of such grantees, if any, awards shall be granted hereunder and the timing of any such awards; (iii) to grant awards to grantees and determine the terms and conditions thereof, including the number of shares of Common Stock subject to awards and the exercise or purchase price of such shares and the circumstances under which awards become exercisable or vested or are forfeited or expire, which terms may but need not be conditioned upon the passage of time, continued employment, the satisfaction of performance criteria, the occurrence of certain events (including events which constitute a Change in Control to the extent permitted hereunder), or other factors; (iv) to establish and verify the extent of satisfaction of any performance goals or other conditions applicable to the grant, issuance, exercisability, vesting and/or ability to retain any award; (v) to prescribe and amend the terms of the agreements or other documents evidencing awards made under this Plan (which need not be identical) and the terms of or form of any document or notice required to be delivered to the Company by grantees under this Plan; (vi) to determine the extent to which adjustments are required pursuant to Article One; (vii) to interpret and construe this Plan, any rules and regulations under this Plan and the terms and conditions of any award granted hereunder, and to make exceptions to any such provisions for the benefit of the Company; (viii) to approve corrections in the documentation or administration of any award; and (ix) to make all other determinations deemed necessary or advisable for the administration of this Plan.

C. All decisions, determinations and interpretations by the Committee regarding the Plan, any rules and regulations under the Plan and the terms and conditions of or operation of any Award granted hereunder, shall be final and binding on all grantees, beneficiaries, heirs, assigns or other persons holding or claiming rights under the Plan or any Award. The Committee shall consider such factors as it deems relevant, in its sole and absolute discretion, to making such decisions, determinations and interpretations including, without limitation, the recommendations or advice of any officer or other employee of the Company and such attorneys, consultants and accountants as it may select.

D. The Compensation Committee may delegate all or a portion of their duties hereunder to one or more individuals or committees. Any reference to the Compensation Committee or the Plan Administrator shall refer to such individual(s) or committee(s) to the extent of such delegation.

E. Administration of the Automatic Option Grant Program shall be self-executing in accordance with the express terms and conditions of Article Four, and no Plan Administrator shall exercise any discretionary functions under that program.

#### IV. ELIGIBILITY

A. The persons eligible to participate in the Discretionary Option Grant and Stock Issuance Programs shall be limited to the following:

(i) officers and other employees of the Company (or its parent or subsidiary corporations);

(ii) individuals who are consultants or independent advisors and who provide valuable services to the Company (or its parent or subsidiary corporations); and

(iii) non-employee members of the Board (or of the board of directors of parent or subsidiary corporations).

B. Only Board members who are not employees of the Company (or any parent or subsidiary) shall be eligible to receive automatic option grants pursuant to the Automatic Option Grant Program specified in Article Four.

C. The Plan Administrator shall, within the scope of its administrative jurisdiction under the Plan, have full power and authority to determine (i) whether to grant options in accordance with the Discretionary Option Grant Program or to effect stock issuances in accordance with the Stock Issuance Program, (ii) which eligible persons are to receive option grants under the Discretionary Option Grant Program, the time or times when such option grants are to be made, the number of shares to be covered by each such grant, the status of the granted option as either an incentive stock option (“Incentive Option”) which satisfies the requirements of Section 422 of the Internal Revenue Code of 1986, as amended (the “Code”) or a non-statutory option not intended to meet such requirements, the time or times when each such option is to become exercisable, the vesting schedule (if any) applicable to the option shares and the maximum term for which such option is to remain outstanding, and (iii) which eligible persons are to receive stock issuances under the Stock Issuance Program, the time or times when such issuances are to be made, the number of shares to be issued to each grantee, the vesting schedule (if any) applicable to the shares and the consideration for such shares.

#### V. STOCK SUBJECT TO THE PLAN

A. Shares of the Company's Common Stock shall be available for issuance under the Plan and shall be drawn from either the Company's authorized but unissued shares of Common Stock or from reacquired shares of Common Stock, including shares repurchased by the Company on the open market. The maximum number of shares of Common Stock which may be issued over the term of the Plan, as amended and restated, shall not exceed 28,590,000 shares, subject to adjustment from time to time in accordance with the provisions of this Section V. The total number of shares available under the Plan, as amended and restated, as of September 14, 2018 is 18,798,268. This amount consists of 14,117,544 shares reserved for awards already issued, 280,724 shares of Common Stock available for future issuance under the Plan, and the increase of 4,400,000 shares of Common Stock authorized by the Board (subject to approval by the Company's stockholders at the Special Stockholders Meeting on October 30, 2018).

B. In no event shall the number of shares of Common Stock for which any one individual participating in the Plan may receive options, separately exercisable stock appreciation rights and direct stock issuances and RSUs exceed 1,500,000 shares of Common Stock in the aggregate in any calendar year. For purposes of such limitation, however, no stock options granted prior to the date the Common Stock was first registered under Section 12 of the 1934 Act (the "Section 12(g) Registration Date") shall be taken into account.

C. Should an outstanding option under this Plan expire or terminate for any reason prior to exercise in full, the shares subject to the portion of the option not so exercised shall be available for subsequent option grant or direct stock issuances or RSUs under the Plan. Unvested shares issued under the Plan and subsequently repurchased by the Company, at the original issue price paid per share, pursuant to the Company's repurchase rights under the Plan, or shares underlying terminated RSUs, shall be added back to the number of shares of Common Stock reserved for issuance under the Plan and shall accordingly be available for reissuance through one or more subsequent option grants or direct stock issuances or RSUs under the Plan. However, shares subject to an award under the Plan may not again be made available for issuance under the Plan if such shares are: (i) shares that were subject to a stock-settled stock appreciation right and were not issued upon the net settlement or net exercise of such stock appreciation right, (ii) shares used to pay the exercise price of an option, (iii) shares delivered to or withheld by the Company to pay the withholding taxes related an award, or (iv) shares repurchased on the open market with the proceeds of an option exercise. Shares of Common Stock subject to any option surrendered for an appreciation distribution under Section IV of Article Two or Section IV of Article Four shall not be available for subsequent issuance under the Plan.



D. In the event any change is made to the Common Stock issuable under the Plan by reason of any stock split, stock dividend, recapitalization, combination of shares, exchange of shares or other change affecting the outstanding Common Stock as a class without receipt of consideration, then appropriate adjustments shall be made to (i) the maximum number and/or class of securities issuable under the Plan, (ii) the maximum number and/or class of securities for which any one individual participating in the Plan may be granted stock options, separately exercisable stock appreciation rights, and direct stock issuances and RSUs under the Plan from and after the Section 12(g) Registration Date, (iii) the number and/or class of securities and price per share in effect under each outstanding option and stock appreciation right under the Plan, (iv) the number and/or class of securities in effect under each outstanding direct stock issuance and RSU under the Plan, and (v) the number and/or class of securities for which automatic option grants are subsequently to be made per non-employee Board member under the Automatic Option Grant Program. The purpose of such adjustments shall be to preclude the enlargement or dilution of rights and benefits under the Plan.

E. The fair market value per share of Common Stock on any relevant date under the Plan shall be determined in accordance with the following provisions:

(i) If the Common Stock is not at the time listed or admitted to trading on any national securities exchange but is traded in the over-the-counter market, the fair market value shall be the mean between the highest bid and lowest asked prices (or, if such information is available, the closing selling price) per share of Common Stock on the date in question in the over-the-counter market, as such prices are reported by the National Association of Securities Dealers through the Nasdaq National Market, the Nasdaq Global Select Market or any successor system. If there are no reported bid and asked prices (or closing selling price) for the Common Stock on the date in question, then the mean between the highest bid price and lowest asked price (or the closing selling price) on the last preceding date for which such quotations exist shall be determinative of fair market value.

(ii) If the Common Stock is at the time listed or admitted to trading on any national securities exchange, then the fair market value shall be the closing selling price per share of Common Stock on the date in question on the securities exchange determined by the Plan Administrator to be the primary market for the Common Stock, as such price is officially quoted in the composite tape of transactions on such exchange. If there is no reported sale of Common Stock on the exchange on the date in question, then the fair market value shall be the closing selling price on the exchange on the last preceding date for which such quotation exists.

(iii) If the Common Stock is at the time neither listed nor admitted to trading on any securities exchange nor traded in the over-the-counter market, then the fair market value shall be determined by the Plan Administrator after taking into account such factors as the Plan Administrator shall deem appropriate.

## VI. MINIMUM VESTING

Notwithstanding any other provision of this Plan to the contrary, in no event shall any award granted pursuant to this Plan vest prior to the twelve (12)-month anniversary of the date of grant, other than in connection with the grantee's death or permanent disability or, to the extent permitted hereunder, in connection with a Change in Control (provided that this limitation shall not apply with respect to up to five percent (5%) of the shares of Common Stock available for issuance under this Plan following approval of the Plan at the Company's Special Stockholders Meeting on October 30, 2018). The minimum vesting period set forth in this Section VI may not be waived or superseded by any provision in an award or other agreement.

VII. MINIMUM HOLDING PERIOD

All shares of Common Stock issued under this Plan shall be subject to a minimum holding period of twelve (12) months (or, if later, when the requirements under the Company's share ownership guidelines are satisfied), provided that nothing in this Section shall prohibit the disposition of Common Stock in connection with a Change in Control.

Article Two

DISCRETIONARY OPTION GRANT PROGRAM

I. TERMS AND CONDITIONS OF OPTIONS

Options granted pursuant to this Article Two shall be authorized by action of the Plan Administrator and may, at the Plan Administrator's discretion, be either Incentive Options or non-statutory options. Individuals who are not Employees may only be granted non-statutory options under this Article Two. Each option granted shall be evidenced by one or more instruments in the form approved by the Plan Administrator. Each such instrument shall, however, comply with the terms and conditions specified below, and each instrument evidencing an Incentive Option shall, in addition, be subject to the applicable provisions of Section II of this Article Two.

A. Option Price.

1. The option price per share shall be fixed by the Plan Administrator. In no event, however, shall the option price per share be less than one hundred percent (100%) of the fair market value per share of Common Stock on the date of the option grant.

2. The option price shall become immediately due upon exercise of the option and shall, subject to the provisions of Section IV of this Article Two and the instrument evidencing the grant, be payable through one of the following methods (or a combination thereof):

(i) full payment in cash or check drawn to the Company's order;

(ii) full payment in shares of Common Stock held by the optionee for the requisite period necessary to avoid a charge to the Company's earnings for financial reporting purposes and valued at fair market value on the Exercise Date (as such term is defined below);

(iii) full payment through a combination of shares of Common Stock held by the optionee for the requisite period necessary to avoid a charge to the Company's earnings for financial reporting purposes and valued at fair market value on the Exercise Date and cash or cash equivalent;

(iv) full payment through a broker-dealer sale and remittance procedure pursuant to which the optionee (I) shall provide irrevocable written instructions to a designated brokerage firm to effect the immediate sale of the purchased shares and remit to the Company, out of the sale proceeds available on the settlement date, sufficient funds to cover the aggregate option price payable for the purchased shares plus all applicable Federal and State income and employment taxes required to be withheld by the Company in connection with such purchase and (II) shall provide written directives to the Company to deliver the certificates for the purchased shares directly to such brokerage firm in order to complete the sale transaction; or

(v) such other method as permitted by the Plan Administrator.

For purposes of this subparagraph 2, the Exercise Date shall be the date on which written notice of the option exercise is delivered to the Company. Except to the extent the sale and remittance procedure is utilized in connection with the exercise of the option, payment of the option price for the purchased shares must accompany such notice.

B. Term and Exercise of Options.

Each option granted under this Article Two shall be exercisable at such time or times, during such period, and for such number of shares as shall be determined by the Plan Administrator and set forth in the instrument evidencing the option grant. No such option, however, shall have a maximum term in excess of ten (10) years from the grant date. During the lifetime of the optionee, the option, together with any stock appreciation rights pertaining to such option, shall be exercisable only by the optionee and shall not be assignable or transferable by the optionee except for a transfer of the option by will or by the laws of descent and distribution following the optionee's death and, for the avoidance of doubt, may not be transferred to a third party for cash or other value. However, the Plan Administrator shall have the discretion to provide that a non-statutory option may, in connection with the optionee's estate plan, be assigned in whole or in part during the optionee's lifetime either as (i) as a gift to one or more members of optionee's immediate family, to a trust in which optionee and/or one or more such family members hold more than fifty percent (50%) of the beneficial interest or an entity in which more than fifty percent (50%) of the voting interests are owned by optionee and/or one or more such family members, or (ii) pursuant to a domestic relations order. The assigned portion shall be exercisable only by the person or persons who acquire a proprietary interest in the option pursuant to such assignment. The terms applicable to the assigned portion shall be the same as those in effect for this option immediately prior to such assignment and shall be set forth in such documents issued to the assignee as the Plan

Administrator may deem appropriate.

C. Termination of Service.

1. Except to the extent otherwise provided pursuant to Section V of this Article Two or pursuant to an applicable award agreement, the following provisions shall govern the exercise period applicable to any options held by the optionee at the time of cessation of Service or death.

(i) Should the optionee cease to remain in Service for any reason other than death or permanent disability, then the period for which each outstanding option held by such optionee is to remain exercisable shall be limited to the three (3)-month period following the date of such cessation of Service. However, should optionee die during the three (3)-month period following his or her cessation of Service, the personal representative of the optionee's estate or the person or persons to whom the option is transferred pursuant to the optionee's will or in accordance with the laws of descent and distribution shall have a twelve (12)-month period following the date of the optionee's death during which to exercise such option.

(ii) In the event such Service terminates by reason of permanent disability (as defined in Section 22(e)(3) of the Internal Revenue Code), then the period for which each outstanding option held by the optionee is to remain exercisable shall be limited to the twelve (12)-month period following the date of such cessation of Service.

(iii) Should the optionee, after completing five (5) full years of Service, die while in Service, then the exercisability of each of his or her outstanding options shall automatically accelerate so that each such option shall become fully exercisable with respect to the total number of shares of Common Stock at the time subject to such option and may be exercised for all or any portion of such shares. The personal representative of the optionee's estate or the person or persons to whom the option is transferred pursuant to the optionee's will or in accordance with the laws of descent and distribution shall have a twelve (12)-month period following the date of the optionee's death during which to exercise such option.

(iv) In the event such Service terminates by reason of death prior to the optionee obtaining five (5) full years of Service, then the period for which each outstanding vested option held by the optionee at the time of death shall be exercisable by the optionee's estate or the person or persons to whom the option is transferred pursuant to the optionee's will shall be limited to the twelve (12)-month period following the date of the optionee's death.

(v) Under no circumstances, however, shall any such option be exercisable after the specified expiration date of the option term.

(vi) Each such option shall, during such limited exercise period, be exercisable for any or all of the shares for which the option is exercisable on the date of the optionee's cessation of Service. Upon the expiration of such limited exercise period or (if earlier) upon the expiration of the option term, the option shall terminate and cease to be exercisable. However, each outstanding option shall immediately terminate and cease to remain outstanding, at the time of the optionee's cessation of Service, with respect to any shares for which the option is not otherwise at that time exercisable or in which the optionee is not otherwise vested.

(vii) Should (i) the optionee's Service be terminated for misconduct (including, but not limited to, any act of dishonesty, willful misconduct, fraud or embezzlement) or (ii) the optionee make any unauthorized use or disclosure of confidential information or trade secrets of the Company or its parent or subsidiary corporations, then in any such event all outstanding options held by the optionee under this Article Two shall terminate immediately and cease to be exercisable.

2. The Plan Administrator shall have complete discretion, exercisable either at the time the option is granted or at any time while the option remains outstanding, to permit one or more options held by the optionee under this Article Two to be exercised, during the limited period of exercisability provided under subparagraph 1 above, not only with respect to the number of shares for which each such option is exercisable at the time of the optionee's cessation of Service but also with respect to one or more subsequent installments of purchasable shares for which the option would otherwise have become exercisable had such cessation of Service not occurred.

3. For purposes of the foregoing provisions of this Section I.C (and for all other purposes under the Plan):

(i) The optionee shall be deemed to remain in the **Service** of the Company for so long as such individual renders services on a periodic basis to the Company (or any parent or subsidiary corporation) in the capacity of an Employee, a non-employee member of the board of directors or an independent consultant or advisor, unless the agreement evidencing the applicable option grant specifically states otherwise.

(ii) The optionee shall be considered to be an Employee for so long as such individual remains in the employ of the Company or one or more of its parent or subsidiary corporations, subject to the control and direction of the employer entity not only as to the work to be performed but also as to the manner and method of performance.

D. Stockholder Rights.

An optionee shall have no stockholder rights with respect to any shares covered by the option until such individual shall have exercised the option and paid the option price for the purchased shares. Without limitation, an optionee shall not have any right to receive dividends with respect to an unexercised option.

E. No Repricing.



No option or stock appreciation right may be repriced, regranted through cancellation, including cancellation in exchange for cash or other awards, or otherwise amended to reduce its option price or exercise price (other than with respect to adjustments made in connection with a transaction or other change in the Company's capitalization as permitted under this Plan) without the approval of the stockholders of the Company.

F. Repurchase Rights.

The shares of Common Stock acquired upon the exercise of options granted under this Article Two may be subject to repurchase by the Company in accordance with the following provisions:

1. The Plan Administrator shall have the discretion to grant options which are exercisable for unvested shares of Common Stock under this Article Two. Should the optionee cease Service while holding such unvested shares, the Company shall have the right to repurchase any or all those unvested shares at the option price paid per share. The terms and conditions upon which such repurchase right shall be exercisable (including the period and procedure for exercise and the appropriate vesting schedule for the purchased shares) shall be established by the Plan Administrator and set forth in the instrument evidencing such repurchase right.

2. All of the Company's outstanding repurchase rights shall automatically terminate, and all shares subject to such terminated rights shall immediately vest in full, upon the occurrence of any Corporate Transaction under Section III of this Article Two, except to the extent: (i) any such repurchase right is expressly assigned to the successor corporation (or parent thereof) in connection with the Corporate Transaction or (ii) such termination is precluded by other limitations imposed by the Plan Administrator at the time the repurchase right is issued.

3. The Plan Administrator shall have the discretionary authority, exercisable either before or after the optionee's cessation of Service, to cancel the Company's outstanding repurchase rights with respect to one or more shares purchased or purchasable by the optionee under this Discretionary Option Grant Program and thereby accelerate the vesting of such shares in whole or in part at any time.

## II. INCENTIVE OPTIONS

The terms and conditions specified below shall be applicable to all Incentive Options granted under this Article Two. Incentive Options may only be granted to individuals who are Employees of the Company. Options which are specifically designated as "non-statutory" options when issued under the Plan shall not be subject to such terms and conditions.

A. Dollar Limitation. The aggregate fair market value (determined as of the respective date or dates of grant) of the Common Stock for which one or more options granted to any Employee under this Plan (or any other option plan of the Company or its parent or subsidiary corporations) may for the first time become exercisable as incentive stock options under the Federal tax laws during any one calendar year shall not exceed the sum of One Hundred Thousand Dollars (\$100,000). To the extent the Employee holds two or more such options which become exercisable for the first time in the same calendar year, the foregoing limitation on the exercisability of such options as incentive stock options under the Federal tax laws shall be applied on the basis of the order in which such options are granted. Should the number of shares of Common Stock for which any Incentive Option first becomes exercisable in any calendar year exceed the applicable One Hundred Thousand Dollar (\$100,000) limitation, then that option may nevertheless be exercised in such calendar year for the excess number of shares as a non-statutory option under the Federal tax laws.

B. 10% Stockholder. If any individual to whom an Incentive Option is granted is the owner of stock (as determined under Section 424(d) of the Internal Revenue Code) possessing 10% or more of the total combined voting power of all classes of stock of the Company or any one of its parent or subsidiary corporations, then the option price per share shall not be less than one hundred and ten percent (110%) of the fair market value per share of Common Stock on the grant date, and the option term shall not exceed five (5) years, measured from the grant date.

C. Termination of Employment. Any portion of an Incentive Option that remains outstanding (by reason of the optionee remaining in the Service of the Company, pursuant to the Plan Administrator's exercise of discretion under Section V of this Article Two, or otherwise) more than 3 months following the date an optionee ceases to be an Employee of the Company shall thereafter be exercisable as a non-statutory option under federal tax laws.

Except as modified by the preceding provisions of this Section II, the provisions of Articles One, Two and Five of the Plan shall apply to all Incentive Options granted hereunder.

### III. CORPORATE TRANSACTIONS/CHANGES IN CONTROL

A. For purposes of this Section III (and for all other purposes under the Plan), a Corporate Transaction shall be deemed to occur in the event of:

(1) a merger or consolidation in which the Company is not the surviving entity, except for a transaction the principal purpose of which is to change the State of the Company's incorporation,

(2) the sale, transfer or other disposition of all or substantially all of the assets of the Company in liquidation or dissolution of the Company, or

(3) any reverse merger in which the Company is the surviving entity but in which securities possessing more than fifty percent (50%) of the total combined voting power of the Company's outstanding securities are transferred to a person or persons different from the persons holding those securities immediately prior to such merger.

The exercisability of each option outstanding under this Article Two that was granted before April 3, 2017 shall automatically accelerate so that each such option shall, immediately prior to the specified effective date for the Corporate Transaction, become fully exercisable with respect to the total number of shares of Common Stock at the time subject to such option and may be exercised for all or any portion of such shares.

B. Immediately after the consummation of the Corporate Transaction, all outstanding options under this Article Two shall fully vest, terminate and cease to be outstanding, except to the extent continued or assumed (as applicable) by the Company or the successor corporation or its parent company. The Plan Administrator shall have complete discretion to provide, on such terms and conditions as it sees fit, for a cash payment to be made to any optionee on account of any option terminated in accordance with this paragraph, in an amount equal to the excess (if any) of (A) the fair market value of the shares subject to the option as of the date of the Corporate Transaction, over (B) the aggregate exercise price of the option.

C. Each outstanding option under this Article Two which is assumed in connection with the Corporate Transaction or is otherwise to continue in effect shall be appropriately adjusted, immediately after such Corporate Transaction, to apply and pertain to the number and class of securities which would have been issued to the option holder, in consummation of such Corporate Transaction, had such person exercised the option immediately prior to such Corporate Transaction. Appropriate adjustments shall also be made to the option price payable per share, provided the aggregate option price payable for such securities shall remain the same. In addition, the class and number of securities available for issuance under the Plan following the consummation of the Corporate Transaction shall be appropriately adjusted. Any such options that are so continued or assumed in connection with a Corporate Transaction shall be treated as follows: if the grantee's employment is terminated by the Company without Cause or the grantee resigns due to a Constructive Termination, in either case within the ninety (90) day period preceding or the two (2) year period following the Corporate Transaction, the exercisability of such option shall automatically accelerate, and the Company's outstanding repurchase rights under this Article Two shall immediately terminate; provided, however, that if the Company, the acquiror or successor refuses to continue (or, as applicable, assume) the option in connection with the Corporate Transaction, the exercisability of such option under this Article Two shall automatically accelerate, and the Company's outstanding repurchase rights under this Article Two shall immediately terminate upon the occurrence of such Corporate Transaction.

D. The grant of options under this Article Two shall in no way affect the right of the Company to adjust, reclassify, reorganize or otherwise change its capital or business structure or to merge, consolidate, dissolve, liquidate or sell or transfer all or any part of its business or assets.

E. In the event of a Change in Control: (1) options granted under this Article Two prior to May 23, 2016 shall be subject to the provisions of the Plan as in effect prior to such date, and (2) options granted on or after May 23, 2016 shall be treated as follows: if the grantee's employment is terminated by the Company without Cause or the grantee resigns due to a Constructive Termination, in either case within the ninety (90) day period preceding or the two (2) year period following the Change in Control, the exercisability of such option shall automatically accelerate, and the Company's outstanding repurchase rights under this Article Two shall immediately terminate; provided, however, that if the acquiror or successor refuses to assume the option in connection with the Change in Control, the exercisability of such option under this Article Two shall automatically accelerate, and the Company's outstanding repurchase rights under this Article Two shall immediately terminate upon the occurrence of such Change in Control. In the event that the acquiror or successor refuses to assume the option in connection with the Change in Control, the Plan Administrator shall have complete discretion to provide, on such terms and conditions as it sees fit, for a cash payment to be made to any optionee on account of any option terminated in accordance with this paragraph, in an amount equal to the excess (if any) of (A) the fair market value of the shares subject to the option as of the date of the Change in Control, over (B) the aggregate exercise price of the option.

F. For purposes of this Section III (and for all other purposes under the Plan), a Change in Control shall be deemed to occur in the event:

(1) any person or related group of persons (other than the Company or a person that directly or indirectly controls, is controlled by, or is under common control with, the Company) directly or indirectly acquires beneficial ownership (within the meaning of Rule 13d-3 of the 1934 Act) of securities possessing more than fifty percent (50%) of the total combined voting power of the Company's outstanding securities pursuant to a tender or exchange offer made directly to the Company's stockholders; or

(2) there is a change in the composition of the Board over a period of twenty-four (24) consecutive months or less such that a majority of the Board members (rounded up to the next whole number) ceases, by reason of one or more contested elections for Board membership, to be comprised of individuals who either (A) have been Board members continuously since the beginning of such period or (B) have been elected or nominated for election as Board members during such period by at least two-thirds of the Board members described in clause (A) who were still in office at the time such election or nomination was approved by the Board.

G. All options accelerated in connection with the Corporate Transaction or Change in Control (either at the time of the Corporate Transaction or Change in Control or as otherwise provided in this Section III) shall remain fully exercisable until the expiration or sooner termination of the option term.

H. The portion of any Incentive Option accelerated under this Section III in connection with a Corporate Transaction or Change in Control shall remain exercisable as an incentive stock option under the Federal tax laws only to the extent the dollar limitation of Section II of this Article Two is not exceeded. To the extent such dollar limitation is exceeded, the accelerated portion of such option shall be exercisable as a non-statutory option under the Federal tax laws.

I. For purposes of this Article Two and for purposes of Article Three:

1. "Cause" means, unless otherwise provided in the applicable award agreement, the Company's termination of the grantee's employment for any of the following reasons: (i) failure or refusal to comply in any material respect with lawful policies, standards or regulations of Company; (ii) a violation of a federal or state law or regulation applicable to the business of the Company; (iii) conviction or plea of no contest to a felony under the laws of the United States or any State; (iv) fraud or misappropriation of property belonging to the Company or its affiliates; (v) a breach in any material respect of the terms of any confidentiality, invention assignment or proprietary information agreement with the Company or with a former employer, (vi) failure to satisfactorily perform the grantee's duties after having received written notice of such failure and at least thirty (30) days to cure such failure, or (vii) misconduct or gross negligence in connection with the performance of the grantee's duties.

2. “Constructive Termination” means, unless otherwise provided in the applicable award agreement, the grantee’s resignation of employment with the Company within ninety (90) days of the occurrence of any of the following: (i) a material reduction in the grantee’s responsibilities; (ii) a material reduction in the grantee’s base salary; or (iii) a relocation of the grantee’s principal office to a location more than 50 miles from the location of the grantee’s existing principal office.

IV. STOCK APPRECIATION RIGHTS

A. Provided and only if the Plan Administrator determines in its discretion to implement the stock appreciation right provisions of this Section IV, one or more optionees may be granted the right, exercisable upon such terms and conditions as the Plan Administrator may establish, to surrender all or part of an unexercised option granted under this Article Two in exchange for a distribution from the Company in an amount equal to the excess of (i) the fair market value (on the option surrender date) of the number of shares in which the optionee is at the time vested under the surrendered option (or surrendered portion thereof) over (ii) the aggregate option price payable for such vested shares. The distribution may be made in shares of Common Stock valued at fair market value on the option surrender date, in cash, or partly in shares and partly in cash, as the Plan Administrator shall determine in its sole discretion.

B. The shares of Common Stock subject to any option surrendered for an appreciation distribution pursuant to this Section IV shall not be available for subsequent option grant under the Plan.

C. Stockholder Rights. A stock appreciation right holder shall have no stockholder rights with respect to any shares covered by the stock appreciation right until such individual shall have exercised the stock appreciation right and received the acquired shares. Without limitation, a stock appreciation right holder shall not have any right to receive dividends with respect to a stock appreciation right.

V. EXTENSION OF EXERCISE PERIOD

The Plan Administrator shall have full power and authority, exercisable either at the time the option is granted or at any time while the option remains outstanding, to extend the period of time for which any option granted under this Article Two is to remain exercisable following the optionee's cessation of Service or death from the limited period in effect under Section I.C.1 of Article Two to such greater period of time as the Plan Administrator shall deem appropriate; provided, however, that in no event shall such option be exercisable after the specified expiration date of the option term.

Article Three  
STOCK ISSUANCE PROGRAM

I. STOCK ISSUANCE TERMS



Shares of Common Stock may be issued under the Stock Issuance Program through direct and immediate issuances without any intervening option grants. Each such stock issuance shall be evidenced by a Stock Issuance Agreement which complies with the terms specified below. Shares of Common Stock may also be issued under the Stock Issuance Program pursuant to restricted stock units (“RSUs”), which are awards granted to eligible individuals that entitle them to shares of Common Stock (or cash in lieu thereof) in the future following the satisfaction of vesting conditions imposed by the Plan Administrator.

A. Vesting Provisions.

1. The Plan Administrator may issue shares of Common Stock under the Stock Issuance which are to vest in one or more installments over the grantee's period of Service or upon attainment of specified performance objectives. Alternatively, the Plan Administrator may issue RSUs under the Stock Issuance Program which shall entitle the recipient to receive a specified number of shares of Common Stock upon the attainment of one or more Service and/or performance goals established by the Plan Administrator. Upon the attainment of such Service and/or performance goals, fully-vested shares of Common Stock shall be issued in satisfaction of those RSUs.

2. Any new, substituted or additional securities or other property (including money paid other than as a regular cash dividend) issued by reason of any stock dividend, stock split, recapitalization, combination of shares, exchange of shares or other change affecting the outstanding Common Stock as a class without the Company's receipt of consideration, shall be issued or set aside with respect to the shares of unvested Common Stock granted to a grantee or subject to a grantee's RSUs, subject to (i) the same vesting requirements applicable to the grantee's unvested shares of Common Stock or RSUs, and (ii) such escrow arrangements as the Plan Administrator shall deem appropriate.

3. The grantee shall have full stockholder rights with respect to any shares of Common Stock issued to the grantee under the Stock Issuance Program, whether or not the grantee's interest in those shares is vested, except that the grantee shall not have dividend rights with respect to such shares prior to the vesting of such shares. However, the Plan Administrator may provide for a grantee to receive one or more dividend equivalents with respect to such shares, entitling the grantee to all regular cash dividends payable on such shares of Common Stock, which amounts shall be (i) subject to the same vesting requirements applicable to the shares of Common Stock granted hereunder, and (ii) payable upon vesting of the shares to which such dividend equivalents relate.

4. The grantee shall not have any stockholder rights with respect to any shares of Common Stock subject to an RSU. However, the Plan Administrator may provide for a grantee to receive one or more dividend equivalents with respect to such shares, entitling the grantee to all regular cash dividends payable on the shares of Common Stock underlying the RSU, which amounts shall be (i) subject to the same vesting requirements applicable to the shares of Common Stock underlying the RSU, and (ii) payable upon issuance of the shares to which such dividend equivalents relate.

5. Should the grantee cease to remain in Service while holding one or more unvested shares of Common Stock issued under the Stock Issuance Program or should the performance objectives not be attained with respect to one or more such unvested shares of Common Stock, then those shares shall be immediately surrendered to the Company for cancellation, and the grantee shall have no further stockholder rights with respect to those shares. To the extent the surrendered shares were previously issued to the grantee for consideration paid in cash, the Company shall repay to the grantee the cash consideration paid for the surrendered shares.

6. Except as prohibited by the last sentence of paragraph 1 above, the Plan Administrator may in its discretion waive the surrender and cancellation of one or more unvested shares of Common Stock which would otherwise occur upon the cessation of the grantee's Service or the non-attainment of the performance objectives applicable to those shares. Such waiver shall result in the immediate vesting of the grantee's interest in the shares of Common Stock as to which the waiver applies. Such waiver may be effected at any time, whether before or after the grantee's cessation of Service or the attainment or non-attainment of the applicable performance objectives.

7. Outstanding RSUs under the Stock Issuance Program shall automatically terminate, and no shares of Common Stock shall actually be issued in satisfaction of those awards, if the Service and/or performance goals established for such awards are not attained. The Plan Administrator, however, shall, except as prohibited by the last sentence paragraph 1 above, have the discretionary authority to issue shares of Common Stock in satisfaction of one or more outstanding RSUs as to which the designated Service and/or performance goals are not attained. Such authority may be exercised at any time, whether before or after the grantee's cessation of Service or the attainment or non-attainment of the applicable performance objectives.

## II. CORPORATE TRANSACTION/CHANGE IN CONTROL

A. All of the Company's outstanding repurchase rights under the Stock Issuance Program shall terminate automatically, and all the shares of Common Stock subject to those terminated rights shall immediately vest in full, in the event of any Corporate Transaction, except to the extent (i) those repurchase rights are to be assigned to the successor corporation (or parent thereof) in connection with the such Corporate Transaction, or (ii) such accelerated vesting is precluded by other limitations imposed in the Stock Issuance Agreement, unless the Plan Administrator determines to waive such limitations.

B. Each award which is assigned in connection with (or is otherwise to continue in effect after) a Corporate Transaction shall be appropriately adjusted such that it shall apply and pertain to the number and class of securities issued to the grantee in consummation of the Corporate Transaction with respect to the shares granted to grantee under this Article Three.

C. In the event of a Change in Control: (1) shares of restricted stock and RSUs granted under this Article Three prior to May 23, 2016 shall be subject to the provisions of the Plan as in effect prior to such date, and (2) shares of restricted stock and RSUs granted on or after May 23, 2016 shall be treated as follows: if the grantee's employment is terminated by the Company without Cause or the grantee resigns due to a Constructive Termination, in either case within the ninety (90) day period preceding or the two (2) year period following the Change in Control, the vesting of such restricted stock and RSUs shall automatically accelerate (and all of the shares of Common Stock subject to such RSUs shall be issued to grantees), and the Company's outstanding repurchase rights under this Article Three shall immediately terminate; provided, however, that if the acquiror or successor refuses to assume the shares of restricted stock or RSUs or substitute an award of equivalent value (as determined by the Committee in its discretion) in connection with the Change in Control, the vesting of such restricted stock or RSUs under this Article Three shall automatically accelerate (and all of the shares of Common Stock subject to such RSUs shall be issued to grantees). To the extent any shares of restricted stock or RSUs vest in whole or in part based on the achievement of performance criteria, the amount that shall vest in accordance with the proviso to clause (2) of the immediately-preceding sentence shall vest based on the higher of actual performance goal attainment through the date of the Change in Control or a prorated amount using target performance and based on the time elapsed in the performance period as of the date of the Change in Control.

### III. STOCKHOLDER RIGHTS

A. Individuals who are granted shares of Common Stock pursuant to this Article Three shall be the owners of such shares for all purposes while holding such Common Stock, and may exercise full voting rights with respect to those shares at all times while held by the individuals. Individuals who have been granted RSUs shall have no voting rights with respect to Common Stock underlying RSUs unless and until such Common Stock is reflected as issued and outstanding shares on the Company's stock ledger.

B. Individuals who are granted shares of Common Stock pursuant to this Article Three shall not have dividend rights with respect to such shares prior to the vesting of such shares. However, the Plan Administrator may provide for a grantee to receive one or more dividend equivalents with respect to such shares, entitling the grantee to all regular cash dividends payable on such shares of Common Stock, which amounts shall be (i) subject to the same vesting requirements applicable to the shares of Common Stock granted hereunder, and (ii) payable upon vesting of the shares to which such dividend equivalents relate.

### IV. SHARE ESCROW / LEGENDS

Unvested shares may, in the Plan Administrator's discretion, be held in escrow by the Company until the grantee's interest in such shares vests or may be issued directly to the grantee with restrictive legends on the certificates evidencing those unvested shares.

Article Four

AUTOMATIC OPTION GRANT PROGRAM

I. ELIGIBILITY

The individuals eligible to receive automatic option grants pursuant to the provisions of this Article Four shall be (i) those individuals who, after the effective date of this amendment and restatement, first become non-employee Board members, whether through appointment by the Board, election by the Company's stockholders, or by continuing to serve as a Board member after ceasing to be employed by the Company, and (ii) those individuals already serving as non-employee Board members on the effective date of this amendment and restatement. As used herein, a "non-employee" Board member is any Board member who is not employed by the Company on the date in question.

II. TERMS AND CONDITIONS OF AUTOMATIC OPTION GRANTS

A. Grants. Option grants shall be made under this Article Four as follows:

1. Each individual who first becomes a non-employee Board member on or after the effective date of this amendment and restatement shall automatically be granted at such time a non-statutory stock option under the terms and conditions of this Article Four, to purchase a number shares of Common Stock equal to the product of (i) 60,000, and (ii) a fraction, the numerator of which is the number of months (rounded to the nearest whole number) remaining between the date such Board member first became a non-employee Board member and the Company's next scheduled Annual Stockholders Meeting, and the denominator of which is 12.

2. Immediately following each Annual Stockholders Meeting of the Company, each individual who is then serving as a non-employee Board member (except for those individuals first elected to serve as non-employee Board members at such meeting), shall automatically be granted a non-statutory stock option under this Article Four to acquire 30,000 shares of Common Stock.

B. Exercise Price. The exercise price per share of each automatic option grant made under this Article Four shall be equal to one hundred percent (100%) of the fair market value per share of Common Stock on the automatic grant date.

C. Payment. The exercise price shall be through one of the following methods (or a combination thereof):

(1) payment in cash or check made payable to the Company's order; or

(2) full payment in shares of Common Stock held for the requisite period necessary to avoid a charge to the Company's reported earnings and valued at fair market value on the Exercise Date (as such term is defined below); or

(3) full payment in a combination of shares of Common Stock held for the requisite period necessary to avoid a charge to the Company's reported earnings and valued at fair market value on the Exercise Date and cash or check payable to the Company's order; or

(4) full payment through a sale and remittance procedure pursuant to which the non-employee Board member (I) shall provide irrevocable written instructions to a designated brokerage firm to effect the immediate sale of the purchased shares and remit to the Company, out of the sale proceeds available on the settlement date, sufficient funds to cover the aggregate exercise price payable for the purchased shares and shall (II) concurrently provide written directives to the Company to deliver the certificates for the purchased shares directly to such brokerage firm in order to complete the sale transaction; or

(5) such other method as permitted by the Plan Administrator.

For purposes of this subparagraph C, the Exercise Date shall be the date on which written notice of the option exercise is delivered to the Company. Except to the extent the sale and remittance procedure specified above is utilized for the exercise of the option, payment of the option price for the purchased shares must accompany the exercise notice.

D. Option Term. Each automatic grant under this Article Four shall have a term of ten (10) years measured from the automatic grant date.

E. Exercisability.

1. Subject to the proviso in Section VI of Article One, each initial automatic grant made pursuant to Section II.A.1 of this Article Four shall vest and become exercisable on the scheduled date of the next Annual Stockholders Meeting following the grant (or, if later, the twelve (12)-month anniversary of the date of grant).

2. Subject to the proviso in Section VI of Article One, each 30,000 share automatic grant made pursuant to Section II.A.2 of this Article Four shall vest and become exercisable for the option shares on the twelve (12)-month anniversary of the automatic grant date.

F. Non-Transferability. During the lifetime of the optionee, each automatic option grant, together with the limited stock appreciation right pertaining to such option, shall be exercisable only by the optionee, except to the extent such option or the limited stock appreciation right is assigned or transferred (i) by will or by the laws of descent and distribution following the optionee's death, or (ii) during optionee's lifetime either (A) as a gift in connection with the optionee's estate plan to one or more members of optionee's immediate family, to a trust in which optionee and/or one or more such family members hold more than fifty percent (50%) of the beneficial interest or to an entity in which more than fifty percent (50%) of the voting interests are owned by optionee and/or one or more such family members, or (B) pursuant to a domestic relations order. The portion of any option assigned or transferred during optionee's lifetime shall be exercisable only by the person or persons who acquire a proprietary interest in the option pursuant to such assignment. The terms applicable to the assigned portion shall be the same as those in effect for this option immediately prior to such assignment and shall be set forth in such documents issued to the assignee as the Plan Administrator may deem appropriate.

G. Cessation of Board Service.

1. Should the optionee cease to serve as a Board member for any reason while holding one or more automatic option grants under this Article Four, then such optionee shall have the remainder of the ten (10) year term of each such option in which to exercise each such option for any or all of the shares of Common Stock for which the option is exercisable at the time of such cessation of Board service. Each such option shall immediately terminate and cease to be outstanding, at the time of such cessation of Board service, with respect to any shares for which the option is not otherwise at that time exercisable. Upon the expiration of the ten (10)-year option term, the automatic grant shall terminate and cease to be outstanding in its entirety. Upon the death of the optionee, whether before or after cessation of Board service, any option held by optionee at the time of optionee's death may be exercised, for any or all of the shares of Common Stock for which the option was exercisable at the time of cessation of Board service by the optionee and which have not been theretofore exercised by the optionee, by the personal representative of the optionee's estate or by the person or persons to whom the option is transferred pursuant to the optionee's will or in accordance with the laws of descent and distribution. Any such exercise must occur during the remainder of the ten (10) year term of such option.

H. Stockholder Rights. The holder of an automatic option grant under this Article Four shall have none of the rights of a stockholder with respect to any shares subject to such option until such individual shall have exercised the option and paid the exercise price for the purchased shares. Without limitation, an optionee shall not have any right to receive dividends with respect to an unexercised option.

III. CORPORATE TRANSACTIONS/CHANGES IN CONTROL



A. In the event of a Corporate Transaction, (1) the exercisability of each option outstanding under this Article Four granted prior to April 3, 2017 shall automatically accelerate so that each such option shall, immediately prior to the specified effective date for the Corporate Transaction, become fully exercisable with respect to the total number of shares of Common Stock at the time subject to such option and may be exercised for all or any portion of such shares, and (2) each option granted under this Article Four thereafter shall be subject to the same rules specified in Article Two, Section III.

B. Immediately after the consummation of the Corporate Transaction, all outstanding options under this Article Four shall terminate and cease to be outstanding, except to the extent assumed by the successor corporation or its parent company. If so provided by the terms of the Corporate Transaction, the optionee shall receive a cash payment on account of any option terminated in accordance with this paragraph, in an amount equal to the excess (if any) of (A) the fair market value of the shares subject to the option as valued pursuant to the Corporate Transaction over (B) the aggregate exercise price of the option.

C. Each outstanding option under this Article Four which is assumed in connection with the Corporate Transaction or is otherwise to continue in effect shall be appropriately adjusted, immediately after such Corporate Transaction, to apply and pertain to the number and class of securities which would have been issued to the option holder, in consummation of such Corporate Transaction, had such person exercised the option immediately prior to such Corporate Transaction. Appropriate adjustments shall also be made to the option price payable per share, provided the aggregate option price payable for such securities shall remain the same. Such option shall be subject to the same rules specified in Article Two, Section III.

D. In connection with any Change in Control, (1) the exercisability of each option grant made prior to April 3, 2017 and outstanding at the time under this Article Four shall automatically accelerate so that each such option shall, immediately prior to the specified effective date for the Change in Control, become fully exercisable with respect to the total number of shares of Common Stock at the time subject to such option and may be exercised for all or any portion of such shares, and (2) each option granted under this Article Four thereafter shall be subject to the same rules specified in Article Two, Section III.

E. The automatic grant of options under this Article Four shall in no way affect the right of the Company to adjust, reclassify, reorganize or otherwise change its capital or business structure or to merge, consolidate, dissolve, liquidate or sell or transfer all or any part of its business or assets.

#### IV. STOCK APPRECIATION RIGHTS

A. With respect to options granted under the Automatic Option Grant Program prior to March 7, 2006:

1. Upon the occurrence of a Hostile Take-Over, the optionee shall have a thirty (30)-day period in which to surrender to the Company each option held by him or her under this Article Four. The optionee shall in return be entitled to a cash distribution from the Company in an amount equal to the excess of (i) the Take-Over Price of the shares of Common Stock at the time subject to each surrendered option (whether or not the option is then exercisable for those shares) over (ii) the aggregate exercise price payable for such shares. The cash distribution shall be made within five (5) days following the date the option is surrendered to the Company, and neither the approval of the Plan Administrator nor the consent of the Board shall be required in connection with the option surrender and cash distribution. Any unsurrendered portion of the option shall continue to remain outstanding and become exercisable in accordance with the terms of the instrument evidencing such grant. This limited stock appreciation right shall in all events terminate upon the expiration or sooner termination of the option term and may not be assigned or transferred by the optionee.

2. For purposes of Article Four, the following definitions shall be in effect:

(i) A Hostile Take-Over shall be deemed to occur in the event any person or related group of persons (other than the Company or a person that directly or indirectly controls, is controlled by, or is under common control with, the Company) directly or indirectly acquires beneficial ownership (within the meaning of Rule 13d-3 of the 1934 Act, as amended) of securities possessing more than fifty percent (50%) of the total combined voting power of the Company's outstanding securities pursuant to a tender or exchange offer made directly to the Company's stockholders which the Board does not recommend such stockholders to accept.

(ii) The **Take-Over Price** per share shall be deemed to be equal to the fair market value per share on the option surrender date.

B. With respect to each option granted under the Automatic Option Grant Program on and after March 7, 2006, each optionee shall have the right to surrender all or part of the option (to the extent not then exercised) in exchange for a distribution from the Company in an amount equal to the excess of (i) the fair market value (on the option surrender date) of the number of shares in which the optionee is at the time vested under the surrendered option (or surrendered portion thereof) over (ii) the aggregate option price payable for such vested shares. The distribution shall be made in shares of Common Stock valued at fair market value on the option surrender date.

C. The shares of Common Stock subject to any option surrendered for an appreciation distribution pursuant to this Section IV shall not be available for subsequent option grant under the Plan.

Article Five

SECTION 162(M) PERFORMANCE GOALS

I. GENERAL

The Plan Administrator may establish performance criteria and level of achievement versus such criteria that shall determine the number of shares of Common Stock or RSUs to be granted, retained, vested, issued or issuable under or in settlement of or the amount payable pursuant to an award hereunder, which criteria may be based on Qualifying Performance Criteria (as defined below) or other standards of financial performance and/or personal performance evaluations. In addition, the Plan Administrator may specify that an award or a portion of an award is intended to satisfy the requirements for “performance-based compensation” under Section 162(m) of the Code, provided that the performance criteria for such award or portion of an award that is intended by the Plan Administrator to satisfy the requirements for “performance-based compensation” under Section 162(m) of the Code shall be a measure based on one or more Qualifying Performance Criteria selected by the Committee and specified at the time the award is granted. The Committee shall certify the extent to which any Qualifying Performance Criteria have been satisfied, and the amount payable as a result thereof, prior to payment, settlement or vesting of any award that is intended to satisfy the requirements for “performance-based compensation” under Section 162(m) of the Code. Notwithstanding satisfaction of any performance goals, the number of shares of Common Stock issued under or the amount paid under an award may, to the extent specified in the applicable award agreement, be reduced by the Committee on the basis of such further considerations as the Committee in its sole discretion shall determine. The Committee may not delegate its duties under this Article Five to any other person with respect to any award that is intended to satisfy the requirements for “performance-based compensation” under Section 162(m) of the Code.

III. QUALIFYING PERFORMANCE CRITERIA

For purposes of this Plan, the term “Qualifying Performance Criteria” shall mean any one or more of the following performance criteria, either individually, alternatively or in any combination, applied to either the Company as a whole or to a business unit or subsidiary, either individually, alternatively or in any combination, and measured either quarterly, annually or cumulatively over a period of years, on an absolute basis or relative to a pre-established target, to previous years’ results or to a designated comparison group, in each case as specified by the Committee: (i) revenue growth; (ii) earnings before interest, taxes, depreciation and amortization; (iii) earnings before interest, taxes and amortization; (iv) operating income; (v) pre- or after-tax income; (vi) cash flow; (vii) cash flow per share; (viii) net income; (ix) earnings per share; (x) return on equity; (xi) return on invested capital; (xii) return on assets; (xiii) economic value added (or an equivalent metric); (xiv) share price performance; (xv) total shareholder return; (xvi) improvement in or attainment of expense levels; (xvii) improvement in or attainment of working capital levels; (xviii) debt reduction; (xix) progress for advancing drug discovery and/or drug development programs; or (xx)

implementation, completion or attainment of measurable objectives with respect to research, development, manufacturing, commercialization, products or projects, or production volume levels. To the extent consistent with Section 162(m) of the Code, the Committee (A) shall appropriately adjust any evaluation of performance under a Qualifying Performance Criteria to eliminate the effects of charges for restructurings, discontinued operations, extraordinary items and all items of gain, loss or expense determined to be extraordinary or unusual in nature or related to the acquisition or disposal of a segment of a business or related to a change in accounting principle all as determined in accordance with standards established by opinion No. 30 of the Accounting Principles Board (APB Opinion No. 30) or other applicable or successor accounting provisions, as well as the cumulative effect of accounting changes, in each case as determined in accordance with generally accepted accounting principles or identified in the Company's financial statements or notes to the financial statements, and (B) may appropriately adjust any evaluation of performance under a Qualifying Performance Criteria to exclude any of the following events that occurs during a performance period: (i) asset write-downs, (ii) litigation, claims, judgments or settlements, (iii) the effect of changes in tax law or other such laws or provisions affecting reported results, (iv) the adverse effect of work stoppages or slowdowns, (v) accruals for reorganization and restructuring programs and (vi) accruals of any amounts for payment under this Plan or any other compensation arrangement maintained by the Company.

Article Six  
MISCELLANEOUS

I. AMENDMENT OF THE PLAN

The Board shall have complete and exclusive power and authority to amend or modify the Plan in any or all respects whatsoever. However, no such amendment or modification shall, without the consent of the holders, adversely affect rights and obligations with respect to options at the time outstanding under the Plan. In addition, certain amendments may require stockholder approval pursuant to applicable laws or regulations.

II. TAX WITHHOLDING

A. The Company's obligation to deliver shares or cash upon the exercise of stock options or stock appreciation rights or upon the grant or vesting of direct stock issuances or RSUs under the Plan shall be subject to the satisfaction of all applicable Federal, State and local income and employment tax withholding requirements.

B. The Plan Administrator may, in its discretion and upon such terms and conditions as it may deem appropriate, provide any or all holders of outstanding options or stock issuances under the Plan (other than the automatic option grants under Article Four) with the election to have the Company withhold, from the shares of Common Stock otherwise issuable upon the exercise or vesting of such awards, a whole number of such shares with an aggregate fair market value equal to the minimum amount necessary (or, if determined by the Plan Administrator in its discretion and to the extent adverse accounting treatment does not result, at the maximum applicable individual statutory tax rates) to satisfy the Federal, State and local income and employment tax withholdings (the "Taxes") incurred in connection with the acquisition or vesting of such shares. In lieu of such direct withholding, one or more grantees may also be granted the right to deliver whole shares of Common Stock to the Company in satisfaction of such Taxes. Any withheld or delivered shares shall be valued at their fair market value on the applicable determination date for such Taxes.

III. EFFECTIVE DATE AND TERM OF PLAN

A. The Plan, as amended and restated, shall be effective on the date specified in the Board of Directors resolution adopting the Plan. Except as provided below, each option issued and outstanding under the Plan immediately prior to such effective date shall continue to be governed solely by the terms and conditions of the agreement evidencing such grant, and nothing in this restatement of the Plan shall be deemed to affect or otherwise modify the rights or obligations of the holders of such options with respect to their acquisition of shares of Common

Stock thereunder. The Plan Administrator shall, however, have full power and authority, under such circumstances as the Plan Administrator may deem appropriate (but in accordance with Section I of this Article Five), to extend one or more features of this amendment and restatement to any options outstanding on the effective date.

B. Unless sooner terminated in accordance with the other provisions of this Plan, the Plan shall terminate upon the earlier of (i) ten years following the date this amendment and restatement of the Plan is approved by the Board or (ii) the date on which all shares available for issuance under the Plan shall have been issued or cancelled pursuant to the exercise, surrender or cash-out of the options granted hereunder. If the date of termination is determined under clause (i) above, then any options or stock issuances outstanding on such date shall continue to have force and effect in accordance with the provisions of the agreements evidencing those awards.

C. Options may be granted with respect to a number of shares of Common Stock in excess of the number of shares at the time available for issuance under the Plan, provided each granted option is not to become exercisable, in whole or in part, at any time prior to stockholder approval of an amendment authorizing a sufficient increase in the number of shares issuable under the Plan.

IV. USE OF PROCEEDS

Any cash proceeds received by the Company from the sale of shares pursuant to options or stock issuances granted under the Plan shall be used for general corporate purposes.

V. REGULATORY APPROVALS

A. The implementation of the Plan, the granting of any option hereunder, and the issuance of stock (i) upon the exercise or surrender of any option or (ii) under the Stock Issuance Program shall be subject to the procurement by the Company of all approvals and permits required by regulatory authorities having jurisdiction over the Plan, the options granted under it and the stock issued pursuant to it.

B. No shares of Common Stock or other assets shall be issued or delivered under the Plan unless and until there shall have been compliance with all applicable requirements of Federal and state securities laws, including (to the extent required) the filing and effectiveness of the Form S-8 registration statement for the shares of Common Stock issuable under the Plan, and all applicable listing requirements of any stock exchange (or the Nasdaq National Market, the Nasdaq Global Select Market or any successor system, if applicable) on which Common Stock is then trading.

VI. NO EMPLOYMENT/SERVICE RIGHTS

Neither the action of the Company in establishing or restating the Plan, nor any action taken by the Plan Administrator hereunder, nor any provision of the Plan shall be construed so as to grant any individual the right to remain in the employ or service of the Company (or any parent or subsidiary corporation) for any period of specific duration, and the Company (or any parent or subsidiary corporation retaining the services of such individual) may terminate such individual's employment or service at any time and for any reason, with or without cause.

VII. MISCELLANEOUS PROVISIONS

A. Except to the extent otherwise expressly provided in the Plan, the right to acquire Common Stock or other awards under the Plan may not be assigned, encumbered or otherwise transferred by any grantee.



B. Awards issued under the Plan shall be subject to any clawback policy of the Company as in effect from time-to-time.

C. The provisions of the Plan relating to the exercise of options and the issuance and/or vesting of shares shall be governed by the laws of the State of Delaware without resort to that state's conflict-of-laws provisions, as such laws are applied to contracts entered into and performed in such State.

D. The Plan is intended to be an unfunded plan. Grantees are and shall at all times be general creditors of the Company with respect to their awards. If the Committee or the Company chooses to set aside funds in a trust or otherwise for the payment of awards under the Plan, such funds shall at all times be subject to the claims of the creditors of the Company in the event of its bankruptcy or insolvency.



