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

SCHEDULE 14A INFORMATION

**Proxy Statement Pursuant to Section 14(a) of the
Securities Exchange Act of 1934
(Amendment No.)**

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

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

Sage Therapeutics, Inc.
(Name of Registrant as Specified In Its Charter)

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

Payment of Filing Fee (Check the appropriate box):

- No fee required
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11

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

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

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

(4) Proposed maximum aggregate value of transaction:

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Fee paid previously with preliminary materials.

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 the registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

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

(3) Filing Party:

(4) Date Filed:



Sage Therapeutics, Inc.
215 First Street
Cambridge, MA 02142

NOTICE OF 2018 ANNUAL MEETING OF STOCKHOLDERS

Notice is hereby given that the 2018 Annual Meeting of Stockholders, or Annual Meeting, of Sage Therapeutics, Inc. will be held on Wednesday, June 6, 2018, at 9:00 a.m. Eastern Time, at 215 First Street, Cambridge, Massachusetts 02142. The purpose of the Annual Meeting is the following:

1. to elect two directors, Geno Germano and Steven Paul, to serve as Class I directors until the 2021 annual meeting of stockholders and until their successors are duly elected and qualified, subject to their earlier death, resignation, or removal;
2. to ratify the appointment of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2018;
3. to hold a nonbinding advisory vote to approve the compensation paid to our named executive officers; and
4. to transact such other business as may properly come before the meeting or at any and all adjournments or postponements thereof.

The proposal for the election of directors relates solely to the election of Class I directors nominated by the Board of Directors.

Only Sage Therapeutics, Inc. stockholders of record at the close of business on April 9, 2018, will be entitled to vote at the Annual Meeting and any adjournment or postponement thereof.

We are pleased to take advantage of Securities and Exchange Commission rules that allow companies to furnish their proxy materials over the Internet. We are mailing to many of our stockholders a Notice of Internet Availability of Proxy Materials, or Notice, instead of a paper copy of our proxy materials and our 2017 Annual Report to Stockholders, or 2017 Annual Report. The Notice contains instructions on how to access those documents and to cast your vote via the Internet. The Notice also contains instructions on how to request a paper copy of our proxy materials and our 2017 Annual Report. All stockholders who do not receive a Notice will receive a paper copy of our proxy materials and our 2017 Annual Report by mail. This process allows us to provide our stockholders with the information they need on a more timely basis, while reducing the environmental impact and lowering the costs of printing and distributing our proxy materials.

Your vote is important. Whether or not you are able to attend the meeting in person, it is important that your shares be represented. To ensure that your vote is recorded promptly, please vote as soon as possible, even if you plan to attend the meeting, by submitting your proxy via the Internet at the address listed on the proxy card or by signing, dating and returning the proxy card.

By Order of the Board of Directors,

Jeffrey M. Jonas, M.D.
Chief Executive Officer, President and Director

Boston, Massachusetts
April 27, 2018

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**SAGE THERAPEUTICS, INC.
PROXY STATEMENT
FOR THE 2018 ANNUAL MEETING OF STOCKHOLDERS**

GENERAL INFORMATION

When are this Proxy Statement and the accompanying materials scheduled to be sent to stockholders?

We have elected to provide access to our proxy materials to our stockholders via the Internet. Accordingly, on or about April 27, 2018, we will begin mailing a Notice of Internet Availability of Proxy Materials, or Notice, and our proxy materials, including the Notice of 2018 Annual Meeting of Stockholders, this Proxy Statement and the accompanying proxy card or, for shares held in street name (held for your account by a broker or other nominee), a voting instruction form. The 2017 Annual Report to Stockholders, or 2017 Annual Report, will be mailed or made available to stockholders on the Internet on the same date.

Why did I receive a Notice of Internet Availability of Proxy Materials instead of a full set of proxy materials?

Pursuant to rules adopted by the Securities and Exchange Commission, or SEC, for most stockholders, we are providing access to our proxy materials over the Internet rather than printing and mailing our proxy materials. We believe following this process will expedite the receipt of such materials and will help lower our costs and reduce the environmental impact of our annual meeting materials. Therefore, the Notice will be mailed to holders of record and beneficial owners of our common stock starting on or about April 27, 2018. The Notice will provide instructions as to how stockholders may access and review our proxy materials, including the Notice of 2018 Annual Meeting of Stockholders, this Proxy Statement, the proxy card and our 2017 Annual Report, on the website referred to in the Notice or, alternatively, how to request that a copy of the proxy materials, including a proxy card, be sent to them by mail. The Notice will also provide voting instructions. In addition, stockholders of record may request to receive the proxy materials in printed form by mail or electronically by e-mail on an ongoing basis for future stockholder meetings. Please note that, while our proxy materials are available at the website referenced in the Notice, and our Notice of 2018 Annual Meeting of Stockholders, this Proxy Statement and our 2017 Annual Report are available on our website, no other information contained on either website is incorporated by reference in or considered to be a part of this Proxy Statement.

IMPORTANT NOTICE REGARDING THE INTERNET AVAILABILITY OF PROXY MATERIALS FOR THE ANNUAL STOCKHOLDERS MEETING TO BE HELD ON JUNE 6, 2018: *This Proxy Statement, the accompanying proxy card or voting instruction card and our 2017 Annual Report are available at <http://www.proxyvote.com>.*

In this Proxy Statement, the terms “Sage,” “we,” “us,” and “our” refer to Sage Therapeutics, Inc. The mailing address of our principal executive offices is Sage Therapeutics, Inc., 215 First Street, Cambridge, Massachusetts 02142.

Who is soliciting my vote?

Our Board of Directors, or Board of Directors, is soliciting your vote for the Annual Meeting.

When is the record date for the Annual Meeting?

The record date for determination of stockholders entitled to vote at the Annual Meeting is the close of business on April 9, 2018.

How many votes can be cast by all stockholders?

There were 46,464,023 shares of our common stock, par value \$0.0001 per share, outstanding on April 9, 2018, all of which are entitled to vote with respect to all matters to be acted upon at the Annual Meeting. Each

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stockholder of record is entitled to one vote for each share of our common stock held by such stockholder. None of our shares of undesignated preferred stock were outstanding as of April 9, 2018.

How do I vote?

In Person

If you are a stockholder of record, you may vote in person at the Annual Meeting. We will give you a ballot when you arrive. If you hold your shares through a bank or broker and wish to vote in person at the meeting, you must obtain a valid proxy from the firm that holds your shares.

By Proxy

If you do not wish to vote in person or will not be attending the Annual Meeting, you may vote by proxy. You can vote by proxy over the Internet by following the instructions provided in the Notice, or, if you requested printed copies of the proxy materials by mail, you can vote by mailing your proxy as described in the proxy materials. If you complete and submit your proxy before the Annual Meeting, the persons named as proxies will vote the shares represented by your proxy in accordance with your instructions. If you submit a proxy without giving voting instructions, your shares will be voted in the manner recommended by the Board of Directors on all matters presented in this Proxy Statement, and as the persons named as proxies may determine in their discretion with respect to any other matters properly presented at the Annual Meeting. You may also authorize another person or persons to act for you as proxy in a writing, signed by you or your authorized representative, specifying the details of those proxies' authority. The original writing must be given to each of the named proxies, although it may be sent to them by electronic transmission if, from that transmission, it can be determined that the transmission was authorized by you.

If any other matters are properly presented for consideration at the Annual Meeting, including, among other things, consideration of a motion to adjourn the Annual Meeting to another time or place (including, without limitation, for the purpose of soliciting additional proxies), the persons named in your proxy and acting thereunder will have discretion to vote on those matters in accordance with their best judgment. We do not currently anticipate that any other matters will be raised at the Annual Meeting.

How do I revoke my proxy?

You may revoke your proxy by (1) following the instructions on the Notice and entering a new vote by mail or over the Internet before the Annual Meeting or (2) attending the Annual Meeting and voting in person (although attendance at the Annual Meeting will not in and of itself revoke a proxy). Any written notice of revocation or subsequent proxy card must be received by our Secretary prior to the taking of the vote at the Annual Meeting. Such written notice of revocation or subsequent proxy card should be hand delivered to our Secretary or sent to our principal executive offices at Sage Therapeutics, Inc., 215 First Street, Cambridge, Massachusetts 02142, Attention: Secretary.

If a broker, bank, or other nominee holds your shares, you must contact such broker, bank, or nominee in order to find out how to change your vote.

How is a quorum reached?

Our Amended and Restated By-laws, or By-laws, provide that a majority of the shares entitled to vote, present in person or represented by proxy, will constitute a quorum for the transaction of business at the Annual Meeting.

Under the General Corporation Law of the State of Delaware, shares that are voted "abstain" or "withheld" and broker "non-votes" are counted as present for purposes of determining whether a quorum is present at the Annual Meeting.

How is the vote counted?

Under our By-laws, any proposal other than an election of directors is decided by a majority of the votes properly cast for and against such proposal, except where a larger vote is required by law or by our Amended and Restated Certificate of Incorporation, or Certificate of Incorporation, or By-laws. Abstentions and broker “non-votes” are not included in the tabulation of the voting results on any such proposal and, therefore, do not have an impact on such proposals. A broker “non-vote” occurs when a nominee holding shares for a beneficial owner does not vote on a particular proposal because the nominee does not have discretionary voting power with respect to that item, and has not received instructions from the beneficial owner.

If your shares are held in “street name” by a brokerage firm, your brokerage firm is required to vote your shares according to your instructions. If you do not give instructions to your brokerage firm, the brokerage firm will still be able to vote your shares with respect to certain “discretionary” items, but will not be allowed to vote your shares with respect to “non-discretionary” items. Proposals 1 and 3 are “non-discretionary” items. If you do not instruct your broker how to vote with respect to those proposals, your broker may not vote for those proposals, and those votes will be counted as broker “non-votes.” Proposal 2 is considered to be a discretionary item, and your brokerage firm will be able to vote on this proposal even if it does not receive instructions from you.

Who pays the cost for soliciting proxies?

We are making this solicitation and will pay the entire cost of preparing and distributing the Notice and our proxy materials and soliciting votes. If you choose to access the proxy materials or vote over the Internet, you are responsible for any Internet access charges that you may incur. Our officers and employees may, without compensation other than their regular compensation, solicit proxies through further mailings, personal conversations, facsimile transmissions, e-mails, or otherwise. We have hired Broadridge Financial Solutions, Inc. to assist us in the distribution of proxy materials and the solicitation of votes described above. Proxy solicitation expenses that we will pay include those for preparation, mailing, returning, and tabulating the proxies. We have also hired The Proxy Advisory Group, LLC to assist in the solicitation of proxies and provide related advice and informational support, for a services fee, plus customary disbursements, which are not expected to exceed \$15,000 in total.

How are matters submitted for consideration at an annual meeting?

Stockholder proposals intended to be presented at the next annual meeting of our stockholders must satisfy the requirements set forth in the advance notice provisions under our By-laws. To be timely for our next annual meeting of stockholders, any such proposal must be delivered in writing to our Secretary at 215 First Street, Cambridge, MA 02142 between the close of business on February 6, 2019 and March 8, 2019. If the date of the next annual meeting of the stockholders is scheduled to take place before May 7, 2019, or after August 5, 2019, notice by the stockholder must be delivered no later than the close of business on the later of (1) the 90th day prior to such annual meeting or (2) the 10th day following the day on which public announcement of the date of such meeting is first made.

In addition, any stockholder proposal intended to be included in the proxy statement for the next annual meeting of our stockholders in 2019 must also satisfy the requirements of SEC Rule 14a-8 under the Securities Exchange Act of 1934, as amended, or the Exchange Act, and be received not later than December 29, 2018. If the date of the annual meeting is moved by more than 30 days from the date contemplated at the time of the previous year’s proxy statement, then notice must be received within a reasonable time before we begin to print and send proxy materials. If that happens, we will publicly announce the deadline for submitting a proposal in a press release or in a document filed with the SEC.

OVERVIEW OF PROPOSALS

This Proxy Statement contains three proposals requiring stockholder action. Proposal 1 requests the election of two Class I directors to the Board of Directors. Proposal 2 requests the ratification of the appointment of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2018. Proposal 3 requests a nonbinding advisory vote to approve the compensation of our named executive officers as disclosed in this Proxy Statement. Each of the proposals is discussed in more detail in the pages that follow.

PROPOSAL 1

ELECTION OF DIRECTORS

The Board of Directors is divided into three classes. One class is elected each year at the annual meeting of stockholders for a term of three years. Vacancies on the Board of Directors are filled exclusively by the affirmative vote of a majority of the remaining directors, even if less than a quorum is present, and not by stockholders. A director elected by the Board of Directors to fill a vacancy in a class shall hold office for the remainder of the full term of that class, and until the director's successor is duly elected and qualified or until his or her earlier death, resignation, or removal.

The terms of the Class I directors are scheduled to expire on the date of the upcoming Annual Meeting. Based on the recommendation of the Nominating and Corporate Governance Committee of the Board of Directors, or Nominating and Corporate Governance Committee, the Board of Directors' nominees for election by the stockholders are the following current Class I members: Geno Germano and Steven Paul. If elected, each nominee will serve as a director until the annual meeting of stockholders in 2021 and until his successor is duly elected and qualified, or until his earlier death, resignation, or removal.

The names of and certain information about the directors in each of the three classes are set forth below. There are no family relationships among any of our directors or executive officers.

It is intended that proxies will be voted, unless otherwise indicated, for the election of the Class I director nominees to the Board of Directors. If any of the nominees should for any reason be unable or unwilling to serve at any time prior to the Annual Meeting, the proxies will be voted for the election of such substitute nominee as the Board of Directors may designate.

Nominees for Class I Directors

The names of the nominees for Class I directors and certain information about each as of April 9, 2018 are set forth below.

<u>Name</u>	<u>Positions and Offices Held with Sage</u>	<u>Director Since</u>	<u>Age</u>
Geno Germano	Director	2016	57
Steven Paul	Director	2011	67

Directors Not Standing for Election or Re-Election

The names of and certain information as of April 9, 2018 about the members of the Board of Directors who are not standing for election or re-election at this year's Annual Meeting are set forth below.

<u>Name</u>	<u>Positions and Offices Held with Sage</u>	<u>Director Since</u>	<u>Class and Year in Which Term Will Expire</u>	<u>Age</u>
Kevin P. Starr	Chairman of the Board of Directors	2011	Class II—2019	55
James M. Frates	Director	2014	Class II—2019	50
Asha Nayak	Director	2017	Class III—2020	47
Michael F. Cola	Director	2014	Class III—2020	59
Jeffrey M. Jonas	Director, Chief Executive Officer and President	2013	Class III—2020	65

Set forth below are the biographies of each director, as well as a discussion of the particular experience, qualifications, attributes, and skills that led our Board of Directors to conclude that each person nominated to serve or currently serving on our Board of Directors should serve as a director. In addition to the information presented below, we believe that each director meets the minimum qualifications established by the Nominating and Corporate Governance Committee for our directors.

Jeffrey M. Jonas, M.D. Dr. Jonas has served as our Chief Executive Officer and President and a member of our Board of Directors since August 2013. From 2012 to 2013, Dr. Jonas served as the President of the Regenerative Medicine Division of Shire plc, or Shire, and from 2008 to 2012 as Senior Vice President of Research and Development, Pharmaceuticals at Shire. From 2007 to 2008, Dr. Jonas served as the Executive Vice President of Ionis Pharmaceuticals, Inc., formerly known as ISIS Pharmaceuticals, Inc. and from 2006 to 2007 as Chief Medical Officer and Executive Vice President of Forest Laboratories, Inc. and from 1991 to 1996 in senior-level positions at Upjohn Laboratories. Dr. Jonas also founded AVAX Technologies, Inc. and SCEPTOR Industries, Inc., where he served as the Chief Executive Officer, President and a Director. Dr. Jonas has published more than 70 scientific papers and chapters, authored more than 100 books, scientific articles and abstracts, and has received numerous awards. Dr. Jonas received his B.A. from Amherst College and M.D. from Harvard Medical School. He completed a residency in psychiatry at Harvard Medical School, and he served as Chief Resident in psychopharmacology at McLean Hospital, Harvard Medical School. Dr. Jonas' qualifications to sit on our Board of Directors include more than 20 years of experience on both the scientific and business sides of the pharmaceutical and healthcare industries, particularly in the Central Nervous System (CNS) field.

Michael F. Cola. Mr. Cola has served as a member of our Board of Directors since September 2014. He currently serves as President and Chief Executive Officer of Aevi Genomic Medicine, Inc., or Aevi, formerly Medgenics, Inc., a position he has held since 2013. Prior to joining Aevi, from 2005 to 2012, he served as president of specialty pharmaceuticals at Shire plc, a global specialty pharmaceutical company. Previously from 2000 to 2005, Mr. Cola also served as a growth capital provider and president of the life sciences group for Safeguard Scientifics, Inc., where he served as Chairman and Chief Executive Officer of Clariant, Inc., and Chairman of Laureate Pharma, Inc. In addition, Mr. Cola has held senior positions in product development and commercialization at Astra Merck Inc. and AstraZeneca plc. Mr. Cola received a B.A. in biology and physics from Ursinus College and an M.S. in biomedical science from Drexel University. He also currently serves on the board of directors of Aevi, Vanda Pharmaceuticals Inc. and serves as chairman for the board of governors of the Boys & Girls Clubs of Philadelphia. In the past five years, Mr. Cola also served on the board of directors of Nupathe Inc. We believe Mr. Cola's qualifications to sit on our Board of Directors include his extensive experience working for various pharmaceutical and biotechnology companies.

James M. Frates. Mr. Frates has served as a member of our Board of Directors since May 2014. He is the Senior Vice President and Chief Financial Officer of Alkermes plc, having held that position since September 2011. From 2007 to 2011, Mr. Frates served as Senior Vice President and Chief Financial Officer of Alkermes, Inc. From 1998 to 2007, Mr. Frates served as Vice President, Chief Financial Officer and Treasurer of Alkermes, Inc.

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From 1996 to 1998, he was employed at Robertson, Stephens & Company, most recently as a Vice President in Investment Banking. Prior to that time, he was employed at Morgan Stanley & Co. From 2004 to 2009, Mr. Frates served on the board of directors of GPC Biotech AG, a biotechnology company, and was a national director of the Association of Bioscience Financial Officers from 2004 to 2009. Mr. Frates is also a Trustee of The Roxbury Latin School. We believe Mr. Frates' qualifications to sit on our Board of Directors include his leadership experience, financial expertise, business judgment and industry knowledge.

Geno Germano. Geno Germano has served as a member of our Board of Directors since July 2016. He served as President of Intrexon Corporation, or Intrexon, a leader in engineering and industrialization of biology, from June 2016 to March 2017. As President, Mr. Germano was responsible for leading Intrexon's management team and commercialization efforts utilizing the Intrexon's technology platform for biologically-based solutions across a broad range of industries including health, consumer, energy, environment and food. Prior to joining Intrexon, from 2014 to February 2016, Mr. Germano was Group President of the Global Innovative Pharma Business of Pfizer Inc., or Pfizer, where he led a growing global \$14 billion business with market-leading medicines and an extensive portfolio of late-stage development candidates in several therapeutic areas including cardiovascular, metabolic disease, neuroscience, inflammation, immunology, and rare diseases. Mr. Germano was also Co-Chair of the Portfolio Strategy and Investment Committee at Pfizer, focused on maximizing the return on research and development investment across the Pfizer portfolio from 2013 to 2016. Previously, from 2009 through 2013, Mr. Germano served as President and General Manager of Pfizer's Specialty Care and Oncology business units where he led commercial, medical, and post proof-of-concept pipeline strategy and development across global markets. Prior to joining Pfizer from 1993 to 2009, Mr. Germano held numerous executive and leadership roles at Wyeth including President of Wyeth U.S., where he was responsible for delivery of operational results across four business units, as well as President of its Global Pharmaceutical and Women's Healthcare Business. Additionally, in the past five years, Mr. Germano has served on the board of directors of Bioverativ Inc., Medicines Co., and Zoetis Inc. Mr. Germano is a member of the Group of Fifty (G50) and served on the Board of the Biotechnology Innovation Organization from 2009-2016. He also is a member of the Advisory Board of the Healthcare Businesswomen's Association. Since 2008, Mr. Germano has been a Trustee of the Albany College of Pharmacy. Mr. Germano received his Bachelor of Science in Pharmacy from Albany College of Pharmacy. We believe Mr. Germano's qualifications to serve on our Board of Directors include his over 30 years of experience in the pharmaceutical industry and his consistent track record of improving operating performance and increasing shareholder value, including across numerous leadership roles in multiple therapeutic categories and global markets at Pfizer, Wyeth and Johnson & Johnson.

Asha Nayak, M.D., Ph.D. Dr. Nayak joined our Board of Directors in November 2017. She served as chief medical officer at Intel Corporation, or Intel, from 2012 to January 2018, where she guided its healthcare investment strategy and provided clinical and business leadership to Intel's broad spectrum of healthcare programs. Dr. Nayak served as co-principal investigator on four clinical studies that demonstrated the value of Intel technologies in the areas of oncology and preventative cardiology. Before joining Intel, from 2010 to 2012 she was vice president at New Leaf Venture Partners, L.L.C., guiding its investments in the medical device sector. Earlier, from 2002 to 2009, Dr. Nayak created and led several new therapy programs at Medtronic plc. Dr. Nayak maintains and has maintained throughout her career an active clinical practice at the Stanford VA emergency department. She is the inventor on numerous patents and is published in several textbooks and peer-reviewed journals. Dr. Nayak received her B.S. from Florida State University, holds an M.D. and Ph.D. in neuroscience from the University of Colorado and completed internal medicine residency and Biodesign Innovation Fellowship programs at Stanford University. We believe Dr. Nayak's qualifications to serve on our Board of Directors include her extensive experience in the development and business strategy of multiple companies in the life sciences sector.

Steven Paul, M.D. Dr. Paul has served as a member of our Board of Directors since September 2011. Dr. Paul is currently the President and Chief Executive Officer of Voyager Therapeutics, Inc., having held that position since September 2014. Since September 2010, Dr. Paul has also served as a venture partner at Third Rock Ventures, LLC, or Third Rock Ventures, a life sciences venture capital firm focused on the formation,

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development and strategy of new companies. From 2011 to 2014, he was a professor of neuroscience, psychiatry and pharmacology at Weill Cornell Medical College. From 2003 to 2010, Dr. Paul, as the Executive Vice President of Eli Lilly and Company, or Eli Lilly, and President of Lilly Research Laboratories, was responsible for Eli Lilly's overall research and development efforts—helping to expand Eli Lilly's R&D efforts in oncology and biotechnology—resulting in a pipeline of approximately 70 new molecular entities. Dr. Paul spent 17 years at Eli Lilly, during which time he held several key leadership roles, including Vice President of Neuroscience (CNS) Research and Group Vice President of Discovery Research (all therapeutic areas) from 1993 to 2003. Prior to Eli Lilly, from 1988 to 1993 Dr. Paul served as Scientific Director of the National Institute of Mental Health (NIMH). Dr. Paul also served as Medical Director in the Commissioned Corps of the United States Public Health Service. Dr. Paul has been the recipient of many awards and honors, and has served on numerous committees and advisory boards. Dr. Paul has also authored or co-authored over 500 papers and book chapters. Dr. Paul is an elected fellow of the American Association for the Advancement of Science and a member of the Institute of Medicine of the National Academy of Sciences. He is also currently on the board of directors or is a trustee of several organizations, including Voyager Therapeutics, Inc., Alnylam Pharmaceuticals, Inc. and the Foundation for the NIH. In the past five years, Dr. Paul also served on the board of Sigma Aldrich Corporation. Dr. Paul has also served as a member of the National Institute of General Medical Sciences (NIGMS) Advisory Council and was appointed by the Secretary of the Department of Health and Human Services (HHS) as a member of the advisory committee to the Director of the NIH from 2001-2006. Dr. Paul was also a member of the National Advisory Mental Health Council, NIMH, and is board certified by the American Board of Psychiatry and Neurology. Dr. Paul received his B.A. in Biology and Psychology from Tulane University, and his M.S. and M.D. degrees from the Tulane University School of Medicine. Dr. Paul's qualifications to sit on our Board of Directors include his extensive career in neuroscience and his leadership and managerial experiences at various pharmaceutical and biotechnology companies and healthcare organizations.

Kevin P. Starr. Mr. Starr has served as a member of our Board of Directors since September 2011. From October 2011 to August 2013, he also served as our interim Chief Executive Officer. In 2007, Mr. Starr co-founded Third Rock Ventures, a venture capital firm where he remains a partner. Mr. Starr served as the interim Chief Executive Officer of Decibel Therapeutics, Inc. from October 2015 to July 2016. From 2003 to 2007, Mr. Starr undertook a number of entrepreneurial endeavors in the life science and entertainment industries. From 2001 to 2002, Mr. Starr served as chief operating officer of Millennium Pharmaceuticals, Inc. He also served as Millennium's chief financial officer from 1998 to 2002. In the past five years, Mr. Starr has served on the board of directors of Alnylam Pharmaceuticals, Inc., Zafgen, Inc., MyoKardia, Inc., Agios Pharmaceuticals Inc., Global Blood Therapeutics, Inc., PanOptica, Inc. and Decibel Therapeutics, Inc. Mr. Starr received an M.S. in corporate finance from Boston College and a B.S./B.A. in mathematics and business from Colby College. Mr. Starr's qualifications to serve on our Board of Directors include his executive management roles with responsibility over key financial and business planning functions and experience in the formation, development and business strategy of multiple start-up companies in the life sciences sector.

Vote Required and Board of Directors' Recommendation

Directors will be elected by a plurality of the votes cast by the stockholders entitled to vote on this proposal at the Annual Meeting, which means that the two nominees receiving the most votes will be elected. Broker non-votes and proxies marked to withhold authority with respect to one or more Class I directors will not affect the outcome of the election.

The proposal for the election of directors relates solely to the election of Class I directors nominated by our Board of Directors.

Our Board of Directors recommends that stockholders vote FOR the election of each of the Class I director nominees listed above.

CORPORATE GOVERNANCE

Board and Committee Matters

Board Leadership and Independence. Our Board of Directors has determined that all members of the Board of Directors, except Dr. Jonas, are independent, as determined in accordance with the rules of the Nasdaq Stock Market, or Nasdaq. In making such independence determination, the Board of Directors considered the relationships that each such non-employee director has with us and all other facts and circumstances that the Board of Directors deemed relevant in determining his or her independence, including the beneficial ownership of our capital stock by each non-employee director. In considering the independence of our directors, our Board of Directors considered the association of our directors with the holders of more than 5% of our common stock. There are no family relationships among any of our directors or executive officers.

The positions of our Chairman of the Board of Directors, or Chairman of the Board, and Chief Executive Officer are presently separated. Separating these positions allows our Chief Executive Officer to focus on our day-to-day business, while allowing the Chairman of the Board to lead the Board of Directors in its fundamental role of providing advice to and independent oversight of management. Our Board of Directors recognizes the time, effort and energy that the Chief Executive Officer must devote to his position in the current business environment, as well as the commitment required to serve as the Chairman of the Board, particularly as the Board of Directors' oversight responsibilities continue to grow. Our Board of Directors also believes that this structure ensures a greater role for the non-management directors in the oversight of our company and active participation of the independent directors in setting agendas and establishing priorities and procedures for the work of our Board of Directors. Our Board of Directors believes its administration of its risk oversight function has not been affected by its leadership structure. Although our By-laws do not require our Chairman of the Board and Chief Executive Officer positions to be separate, our Board of Directors believes that having separate positions is the appropriate leadership structure for us at this time.

Board Meetings and Committees. Our Board of Directors held seven meetings during 2017. The directors regularly hold executive sessions comprised of only independent directors at meetings of the Board of Directors. During 2017, none of our directors then in office attended less than 75% of the aggregate of all meetings of the Board of Directors and all meetings of the committees of our Board of Directors on which such director then served. Continuing directors and nominees for election as directors in a given year are required to attend the annual meeting of our stockholders, barring significant commitments or special circumstances.

Our Board of Directors currently has three standing committees: Audit Committee, Compensation Committee, and Nominating and Corporate Governance Committee.

Audit Committee. The current members of the Audit Committee are Michael F. Cola, Steven Paul, M.D. and James M. Frates, who serves as the Chairman of the Audit Committee. Our Board of Directors has determined that each member of the Audit Committee is independent for Audit Committee purposes as that term is defined in the rules of the SEC and the applicable Nasdaq rules, and has sufficient knowledge in financial and auditing matters to serve on the Audit Committee. Our Board of Directors has designated James M. Frates as an "Audit Committee financial expert," as defined under the applicable rules of the SEC.

The Audit Committee's responsibilities include:

- appointing, approving the compensation of, and assessing the independence of our independent registered public accounting firm;
- pre-approving auditing and permissible non-audit services, and the terms of such services, to be provided by our independent registered public accounting firm;
- reviewing the overall audit plan with our independent registered public accounting firm and members of management responsible for preparing our consolidated financial statements;

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- reviewing and discussing with management and our independent registered public accounting firm our annual and quarterly consolidated financial statements and related disclosures as well as critical accounting policies and practices used by us;
- coordinating the oversight and reviewing the adequacy of our internal control over financial reporting;
- establishing policies and procedures for the receipt and retention of accounting-related complaints and concerns;
- recommending, based upon the Audit Committee's review and discussions with management and our independent registered public accounting firm, whether our audited consolidated financial statements shall be included in our Annual Report on Form 10-K;
- monitoring the integrity of our consolidated financial statements and our compliance with legal and regulatory requirements as they relate to our consolidated financial statements and accounting matters;
- preparing the Audit Committee report required by SEC rules to be included in our annual proxy statement;
- reviewing all related person transactions for potential conflict of interest situations and approving all such transactions; and
- reviewing quarterly earnings releases.

The Audit Committee held four meetings during 2017. The Audit Committee operates under a written charter that satisfies the applicable standards of the SEC and Nasdaq. A copy of the Audit Committee charter is available on our website at <http://investor.sagerx.com/corporate-governance>.

Compensation Committee. The members of the Compensation Committee of our Board of Directors since March 2017 are Steven Paul, M.D., James M. Frates and Michael F. Cola, who serves as the Chairman of the Compensation Committee. Our Board of Directors has determined that each member of the Compensation Committee is "independent" as defined in the applicable Nasdaq rules. The Compensation Committee's responsibilities include:

- annually reviewing and making recommendations to our Board of Directors with respect to corporate goals relevant to the compensation of our executive officers;
- evaluating the performance of our Chief Executive Officer in light of such corporate goals and objectives and making recommendations to our Board of Directors with respect to determining the compensation of our Chief Executive Officer;
- reviewing and approving the compensation of our other executive officers;
- reviewing and establishing our overall management compensation, philosophy and policy;
- overseeing and administering our compensation and similar plans;
- reviewing and approving our policies and procedures for the grant of equity-based awards;
- reviewing and making recommendations to the Board of Directors with respect to director compensation; and
- reviewing and discussing with management the compensation discussion and analysis to be included in our annual proxy statement or Annual Report on Form 10-K.

Prior to March 2017, the members of the Compensation Committee were James M. Frates, Steven Paul, M.D., and Howard Pien, who served as the Chairman of the Compensation Committee. Howard Pien retired from our Board of Directors and its committees in June 2017. The Compensation Committee held six meetings during 2017. The Compensation Committee operates under a written charter adopted by the Board of Directors, which is available on our website at <http://investor.sagerx.com/corporate-governance>.

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Nominating and Corporate Governance Committee. The current members of the Nominating and Corporate Governance Committee are Michael F. Cola, Asha Nayak and Geno Germano, who currently serves as the Chairman of the Nominating and Corporate Governance Committee. Our Board of Directors has determined that each member is “independent” as defined in the applicable Nasdaq rules. The Nominating and Corporate Governance Committee’s responsibilities include:

- developing and recommending to our Board of Directors criteria for Board of Director and committee membership;
- establishing procedures for identifying and evaluating Board of Director candidates, including nominees recommended by stockholders;
- reviewing the size and composition of the Board of Directors to ensure that it is composed of members containing the appropriate skills and expertise to advise us;
- identifying individuals qualified to become members of the Board of Directors;
- recommending to the Board of Directors the persons to be nominated for election as directors and to each of the board’s committees;
- developing a mechanism by which violations of the code of business conduct and ethics can be reported in a confidential manner; and
- overseeing the evaluation of the Board of Directors.

Prior to March 2017, the members of the Nominating and Corporate Governance Committee were Michael F. Cola, who served as the Chairman, Geno Germano and Howard Pien. The Nominating and Corporate Governance Committee held four meetings during 2017. The Nominating and Corporate Governance Committee operates pursuant to a written charter adopted by the Board of Directors, which is available on our website at <http://investor.sagerx.com/corporate-governance>.

The Nominating and Corporate Governance Committee considers candidates for Board of Director membership suggested by its members and the Chief Executive Officer. Additionally, in selecting nominees for directors, the Nominating and Corporate Governance Committee will review candidates recommended by stockholders in the same manner and using the same general criteria as candidates recruited by the committee and/or recommended by our Board of Directors. Any stockholder who wishes to recommend a candidate for consideration by the committee as a nominee for director should follow the procedures described later in this Proxy Statement under the heading “Stockholder Recommendations.” The Nominating and Corporate Governance Committee will also consider whether to nominate any person proposed by a stockholder in accordance with the provisions of our By-laws relating to stockholder nominations as described later in this Proxy Statement under the heading “Stockholder Recommendations.”

Identifying and Evaluating Director Nominees. Our Board of Directors is responsible for filling vacancies on our Board of Directors and for nominating candidates for election by our stockholders each year in the class of directors whose term expires at the relevant annual meeting. The Board of Directors delegates the selection and nomination process to the Nominating and Corporate Governance Committee, with the expectation that other members of the Board of Directors, and of management, will be requested to take part in the process as appropriate.

Generally, the Nominating and Corporate Governance Committee identifies candidates for director nominees in consultation with management, through the use of search firms or other advisors, through the recommendations submitted by stockholders or through such other methods as the Nominating and Corporate Governance Committee deems to be helpful to identify candidates. Once candidates have been identified, the Nominating and Corporate Governance Committee confirms that the candidates meet all of the minimum qualifications for director nominees established by the Nominating and Corporate Governance Committee. The Nominating and

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Corporate Governance Committee may gather information about the candidates through interviews, detailed questionnaires, comprehensive background checks or any other means that the Nominating and Corporate Governance Committee deems to be appropriate in the evaluation process. The Nominating and Corporate Governance Committee then meets as a group to discuss and evaluate the qualities and skills of each candidate, both on an individual basis and taking into account the overall composition and needs of our Board of Directors. Based on the results of the evaluation process, the Nominating and Corporate Governance Committee recommends candidates for the Board of Directors' approval to fill a vacancy or as director nominees for election to the Board of Directors by our stockholders each year in the class of directors whose term expires at the relevant annual meeting.

Minimum Qualifications. The Nominating and Corporate Governance Committee will consider, among other things, the following qualifications, skills and attributes when recommending candidates for the Board of Directors' selection as nominees for the Board of Directors and as candidates for appointment to the Board of Directors' committees. The nominee shall have the highest personal and professional integrity, shall have demonstrated exceptional ability and judgment, and shall be most effective, in conjunction with the other Directors and nominees to the Board of Directors, in collectively serving the long-term interests of the stockholders.

In evaluating proposed director candidates, the Nominating and Corporate Governance Committee may consider, in addition to the minimum qualifications and other criteria for Board of Directors membership approved by the Board of Directors from time to time, all facts and circumstances that it deems appropriate or advisable, including, among other things, the skills of the proposed director candidate, his or her depth and breadth of professional experience or other background characteristics, his or her independence and the needs of the Board of Directors.

Stockholder Recommendations. Stockholders may submit recommendations for director candidates to the Nominating and Corporate Governance Committee by sending the individual's name and qualifications to our Secretary at Sage Therapeutics, Inc., 215 First Street, Cambridge, Massachusetts 02142, who will forward all recommendations to the Nominating and Corporate Governance Committee. The Nominating and Corporate Governance Committee will evaluate any candidates recommended by stockholders against the same criteria and pursuant to the same policies and procedures applicable to the evaluation of candidates proposed by directors or management.

Stockholder Communications. The Board of Directors provides to every stockholder the ability to communicate with the Board of Directors, as a whole, and with individual directors on the Board of Directors through an established process for stockholder communication. For a stockholder communication directed to the Board of Directors as a whole, stockholders may send such communication to the attention of the Chairman of the Board via U.S. Mail or Expedited Delivery Service to: Sage Therapeutics, Inc., 215 First Street, Cambridge, Massachusetts 02142, Attn: Chairman of the Board of the Directors. All such communications will be delivered to the Board of Directors or the applicable director or committee chair.

For a stockholder communication directed to an individual director in his or her capacity as a member of the Board of Directors, stockholders may send such communication to the attention of the individual director via U.S. Mail or Expedited Delivery Service to: Sage Therapeutics, Inc., 215 First Street, Cambridge, Massachusetts 02142, Attn: [Name of Individual Director].

We will forward by U.S. Mail any such stockholder communication to each director, and the Chairman of the Board in his or her capacity as a representative of the Board of Directors, to whom such stockholder communication is addressed to the address specified by each such director and the Chairman of the Board, unless there are safety or security concerns that mitigate against further transmission.

Risk Oversight. Our Board of Directors oversees the management of risks inherent in the operation of our business and the implementation of our business strategies. Our Board of Directors performs this oversight role

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by using several different levels of review. In connection with its reviews of the operations and corporate functions of our company, our Board of Directors addresses the primary risks associated with those operations and corporate functions. In addition, our Board of Directors reviews the risks associated with our company's business strategies periodically throughout the year as part of its consideration of undertaking any such business strategies.

Each of the committees of our Board of Directors also oversees the management of our risk that falls within the committee's areas of responsibility. In performing this function, each committee has full access to management, as well as the ability to engage advisors. Our Chief Financial Officer provides reports to the Audit Committee, and is responsible for identifying, evaluating and implementing risk management controls and methodologies to address any identified risks. In connection with its risk management role, our Audit Committee meets privately with representatives from our independent registered public accounting firm, and privately with our Chief Financial Officer. The Audit Committee oversees the operation of our risk management program, including the identification of the primary risks associated with our business and periodic updates to such risks, and reports to our Board of Directors regarding these activities.

Code of Business Conduct and Ethics. We have adopted a Code of Business Conduct and Ethics that applies to all of our employees, officers and directors, including those officers responsible for financial reporting. The current version of the Code of Business Conduct and Ethics is available on our website at

<http://investor.sagerx.com/corporate-governance>. A copy of the Code of Business Conduct and Ethics may also be obtained, free of charge, upon a request directed to: Sage Therapeutics, Inc., 215 First Street, Cambridge, Massachusetts 02142, Attention: SVP, General Counsel. We intend to disclose any amendment or waiver of a provision of the Code of Business Conduct and Ethics that applies to our principal executive officer, principal financial officer, or principal accounting officer, or persons performing similar functions, by posting such information on our website (available at sagerx.com) and/or in our public filings with the SEC.

Corporate Governance Guidelines. Our Board of Directors has adopted corporate governance guidelines to assist and guide its members in the exercise of their responsibilities. These guidelines should be interpreted in accordance with any requirements imposed by applicable federal or state laws or regulations, Nasdaq and our Certificate of Incorporation and By-laws. Our corporate governance guidelines are available in the corporate governance section of our website at <http://investor.sagerx.com/corporate-governance>. Although these corporate governance guidelines have been approved by our Board of Directors, it is expected that these guidelines will evolve over time as customary practice and legal requirements change. In particular, guidelines that encompass legal, regulatory or exchange requirements as they currently exist will be deemed to be modified as and to the extent that such legal, regulatory or exchange requirements are modified. In addition, the guidelines may also be amended by our Board of Directors at any time as it deems appropriate.

PROPOSAL 2

RATIFICATION OF APPOINTMENT OF INDEPENDENT AUDITORS

On the recommendation of the Audit Committee, our Board of Directors has appointed PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2018. The Board of Directors recommends that stockholders vote for ratification of this appointment. If this proposal is not approved at the Annual Meeting, our Board of Directors will reconsider its appointment. Even if the appointment is ratified, the Audit Committee may, in its discretion, direct the appointment of a different independent registered accounting firm at any time during the year if the Audit Committee determines that such a change would be in our stockholders' best interests.

PricewaterhouseCoopers LLP has audited our financial statements for each fiscal year since December 31, 2013. We expect representatives of PricewaterhouseCoopers LLP to be present at the Annual Meeting, and available to respond to appropriate questions. They will have the opportunity to make a statement if they desire to do so.

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PricewaterhouseCoopers LLP Fees

The following table sets forth fees billed for professional audit services and other services rendered to us by PricewaterhouseCoopers LLP and its affiliates for the fiscal years ended December 31, 2017 and December 31, 2016.

	Fiscal 2017	Fiscal 2016
Audit Fees (\$)	782,500	842,600
Audit-Related Fees (\$)	—	—
Tax Fees (\$)	49,667	50,105
All Other Fees (\$)	2,756	2,756
Total (\$)	<u>834,923</u>	<u>895,461</u>

Audit Fees. Audit fees consist of fees billed for professional services performed by PricewaterhouseCoopers LLP for the audit of our annual consolidated financial statements, the review of interim consolidated financial statements, and related services that are normally provided in connection with registration statements, including the registration statements for our follow-on offerings. Included in the 2016 audit fees are \$184,100 of fees billed in connection with our follow-on offerings completed in January and September 2016. Included in the 2017 audit fees are \$125,000 of fees billed in connection with our follow-on offering completed in November 2017.

Audit-Related Fees. Audit related fees consist of fees billed by PricewaterhouseCoopers LLP for assurance and related services that are reasonably related to the performance of the audit or review of our consolidated financial statements. There were no such fees incurred in 2017 or 2016.

Tax Fees. Tax fees consist of fees for professional services, including tax consulting and compliance performed by PricewaterhouseCoopers LLP.

All Other Fees. All other fees in 2017 and 2016 consisted of fees for software programs, including a proprietary accounting research database.

Pre-Approval of Audit and Non-Audit Services

It is the policy of our Audit Committee that all services to be provided by our independent registered public accounting firm, including audit services and permitted audit-related and non-audit services, must be approved in advance by our Audit Committee.

All PricewaterhouseCoopers LLP services and fees in the fiscal years ended December 31, 2017 and 2016 were pre-approved by the Audit Committee or its properly delegated authority.

Vote Required and Board of Directors' Recommendation

The approval of Proposal 2 requires that a majority of the votes properly cast vote FOR this proposal. Shares that are voted "abstain" will not affect the outcome of this proposal.

Our Board of Directors recommends that stockholders vote FOR ratification of the appointment of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2018.

PROPOSAL 3

ADVISORY VOTE ON NAMED EXECUTIVE OFFICER COMPENSATION

Our Board of Directors is committed to excellence in governance. As part of this commitment, and as required by Section 14A(a)(1) of the Exchange Act, our Board of Directors is providing our stockholders with an opportunity to cast a nonbinding, advisory vote to approve the compensation of our named executive officers.

As described below under “Executive Officer and Director Compensation—Compensation Discussion and Analysis,” we have developed a compensation program that is designed to attract and retain key executives responsible for our success and motivate management to enhance long-term stockholder value. The executive compensation program is designed to reward short-term and long-term performance and to align the financial interests of executive officers with the interests of our stockholders. We believe our executive compensation program strikes an appropriate balance between the implementation of responsible, measured compensation practices and the effective provision of incentives for our named executive officers to exert their best efforts for our success.

We are asking for stockholder approval, on an advisory basis, of the compensation of our named executive officers as disclosed in this Proxy Statement, which includes the disclosures in the “Executive Officer and Director Compensation” section below, and the compensation tables and the narrative discussion following the compensation tables in this Proxy Statement. This vote is not intended to address any specific item of compensation, but rather the overall compensation of our named executive officers and the policies and practices described in this Proxy Statement. For the reasons discussed above, our Board of Directors unanimously recommends that our stockholders vote in favor of the following resolution:

“RESOLVED, that the Company’s stockholders hereby approve, on an advisory basis, the compensation of the named executive officers, as disclosed in the Company’s proxy statement for the 2018 Annual Meeting of Stockholders pursuant to the compensation disclosure rules of the Securities and Exchange Commission, including the Compensation Discussion and Analysis, Summary Compensation Table and the other compensation related tables and disclosure.”

As this vote is advisory, it will not be binding upon our Board of Directors or the Compensation Committee and neither our Board of Directors nor our Compensation Committee will be required to take any action as a result of the outcome of this vote. However, our Compensation Committee will carefully consider the outcome of this vote when considering future executive compensation policies and decisions.

Vote Required

For approval, this proposal must receive the affirmative vote of the majority of shares properly cast on the proposal. Abstentions and broker non-votes will have no effect on Proposal 3.

Recommendation of the Board

Our Board of Directors recommends that stockholders vote FOR the advisory resolution approving our named executive officer compensation.

TRANSACTION OF OTHER BUSINESS

Our Board of Directors knows of no other matters that will be presented for consideration at the Annual Meeting. If any other matters are properly brought before the Annual Meeting, it is the intention of the persons named in the accompanying proxy to vote on such matters in accordance with their best judgment.

EXECUTIVE OFFICER AND DIRECTOR COMPENSATION

Compensation Discussion and Analysis

Our executive compensation programs are designed to attract, motivate and retain qualified and talented executives, motivating them to achieve our business goals, and rewarding them for superior short-term and long-term performance. In particular, our compensation programs are intended to reward the achievement of specified pre-determined quantitative and qualitative corporate and individual performance goals and objectives, and to align the interests of our senior management team with those of our stockholders in order to attain our ultimate objective of delivering important new medicines and increasing stockholder value.

Our Compensation Committee is responsible for overseeing our compensation and benefit plans and policies; administering our equity incentive plans; reviewing and approving annually all compensation decisions relating to our executive officers; and making recommendations to the full Board of Directors on compensation for our Chief Executive Officer and for the Board of Directors. The Compensation Committee considers recommendations from our Chief Executive Officer regarding the compensation of our executive officers other than himself. Our Compensation Committee has the authority under its charter to engage the services of a consulting firm or other outside advisor to assist it in designing our compensation programs and in making compensation decisions.

Our compensation consultant transitioned in April of 2017 from Arnosti Consulting to Aon Consulting, Inc., a part of Aon plc. Our Compensation Committee has assessed the independence of Aon Consulting, Inc. consistent with Nasdaq listing standards, and has concluded that the engagement of Aon Consulting, Inc. does not raise any conflict of interest.

This section discusses the principles underlying our policies and decisions with respect to the compensation of our executive officers who are named in the Summary Compensation Table below, or our “named executive officers,” and all material factors relevant to an analysis of these policies and decisions. Our named executive officers are:

- Jeffrey M. Jonas, M.D., our President and Chief Executive Officer;
- Kimi Iguchi, our Chief Financial Officer and Treasurer;
- Michael Cloonan, our Chief Business Officer;
- Anne Marie Cook, our Senior Vice President, General Counsel; and
- Stephen J. Kanes, M.D., Ph.D., our Chief Medical Officer.

In evaluating our 2017 executive compensation program, the Compensation Committee considered a number of factors as discussed above, including the shareholder advisory (“say-on-pay”) vote on our executive compensation for 2017, which was approved by over 99.60% of the votes cast.

Executive Summary and Corporate Background

We are a clinical-stage biopharmaceutical company committed to developing and commercializing novel medicines to treat life-altering CNS disorders, where there are inadequate or no approved existing therapies. We are targeting CNS indications where patient populations are easily identified, clinical endpoints are well-defined, and development pathways are feasible.

Our executive compensation program is designed to:

- attract and retain qualified and talented executives;
- be fair, reasonable and market competitive;
- provide a strong link between performance and pay, and give us the ability to differentially invest in and reward top performance;

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- be flexible to support our long-term growth strategy; and
- align the incentives of our executive officers with our corporate strategies, business objectives and the long-term interests of our stockholders, and promote long-term ownership by our executives.

To achieve these objectives, our Compensation Committee evaluates our executive compensation program with the goal of setting total compensation at levels that align with a total rewards strategy appropriate for our size and stage. Specifically, our Compensation Committee targets total cash compensation for our executive officers at or near market median, with the opportunity to achieve upper quartile earnings for exceptional company and individual performance. Our Compensation Committee targets total equity incentive compensation for our executive officers between the market median and the upper quartile of our peer group, with achievement of exceptional long-term company performance resulting in upper quartile value of incentives.

Because we have a pay-for-performance philosophy, actual compensation levels are correlated to the achievement of corporate goals and individual performance. As described below, during 2017, we made significant progress and exceeded many of our goals resulting in a strong year for us, including: successful completion of two placebo-controlled Phase 3 clinical trials of our proprietary intravenous, or IV, formulation of brexanolone in postpartum depression, or PPD; successful completion of a placebo-controlled Phase 2 clinical trial of Sage-217 in major depressive disorder, or MDD; progression of SAGE-718 into Phase 1 clinical development for the continued development of our NMDA program; receipt of Fast Track Designation from the U.S. Food and Drug Administration, or FDA, for SAGE-217 in MDD; completion of a Phase 3 clinical trial of brexanolone IV in super-refractory status epilepticus, or SRSE; significant progress in our preparations for a potential commercial launch of brexanolone IV, including supply chain readiness; continued advancement of our early stage drug discovery and translational science work; successful completion of a financing; and continued building of a high-performance organization needed to deliver on our future goals.

Compensation Philosophy and Objectives

Our executive compensation programs are designed to attract, motivate and retain qualified and talented executives, motivating them to achieve our business goals and rewarding them for superior short-term and long-term performance. In particular, our compensation programs are intended to reward the achievement of specified pre-determined quantitative and qualitative corporate and individual performance goals and objectives, and to align the interests of our senior leadership team with those of our stockholders in order to attain our ultimate objective of increasing stockholder value while delivering important new medicines to patients.

Executive Compensation Elements

The primary elements of our executive compensation program are:

- base salary;
- annual performance-based cash incentives;
- equity incentive awards;
- severance and change in control benefits; and
- broad-based health, welfare and retirement benefits.

We award annual increases in base salary based upon an assessment of each executive's performance, the scope of his or her responsibilities and appropriate benchmarks. We determine annual performance-based cash incentives for our executive officers based on achievement of a combination of corporate goals and individual performance. We typically make equity grants to our executive officers upon commencement of their employment, annually following a review of their individual performance, and in connection with any promotion.

The mix of compensation components is designed to reward annual results as well as to incentivize long-term company performance that creates stockholder value.

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Our Compensation Committee does not have a formal or informal policy for allocating a mix between long-term and short-term compensation, between cash and non-cash compensation or among different forms of non-cash compensation. Instead, our Compensation Committee exercises its judgment to determine what it believes to be the appropriate level and mix of the various compensation components, after reviewing information provided by our compensation consultant and other relevant data. We generally strive to provide our executive officers with a balance of short-term and long-term incentives to encourage and reward consistently strong performance. Ultimately, the objective in providing the balance between long-term and current compensation is to ensure adequate base and short-term incentive compensation to attract and retain talent, while providing incentives to maximize long-term value for our company and our stockholders.

Defining and Comparing Compensation to Market Benchmarks

In making compensation decisions, our Compensation Committee reviews publicly available compensation data and survey data provided by our compensation consultant from a peer group of publicly traded, national and regional companies in the biopharmaceutical and biotechnology industries. Our Compensation Committee establishes our peer group, based on the recommendation of our compensation consultant, using a balance of the following criteria:

- companies whose stage of development (revenue and R&D expense) and market capitalization are similar, though not necessarily identical, to ours;
- companies with similar executive positions to ours;
- companies against which we believe we compete for executive talent; and
- public companies based in the United States whose compensation and financial data are available in proxy statements or through widely available compensation surveys.

Based on these criteria, in September 2017 our Compensation Committee approved a revised peer group that we refer to as our 2017 Peer Group.

2017 Peer Group

ACADIA Pharmaceuticals Inc.	Ionis Pharmaceuticals, Inc.
Acceleron Pharma Inc.	Kite Pharma, Inc.
Aerie Pharmaceuticals, Inc.	Neurocrine Biosciences, Inc.
Agios Pharmaceuticals, Inc.	Portola Pharmaceuticals, Inc.
Alnylam Pharmaceuticals, Inc.	Prothena Corporation plc
Amicus Therapeutics, Inc.	Puma Biotechnology, Inc.
bluebird bio, Inc.	Sarepta Therapeutics, Inc.
Clovis Oncology, Inc.	Spark Therapeutics, Inc.
Dermira, Inc.	Synergy Pharmaceuticals, Inc.
Exelixis, Inc.	Tesaro, Inc.
Intercept Pharmaceuticals, Inc.	Ultragenyx Pharmaceutical Inc.

Our Compensation Committee reviews the companies in our peer group annually, based on agreed criteria regarding which companies should be included in the peer group, and makes adjustments as necessary to ensure the peer group continues to properly reflect the market in which we compete for talented executives. For example, the changes between our 2017 Peer Group and our 2016 Peer Group were the result of certain companies being acquired, certain companies moving to a different stage of development (revenue and R&D expense) or market capitalization, and other changes to better align the peer group.

Our 2016 peer group, or 2016 Peer Group, as approved by the Compensation Committee, was: Acceleron Pharma Inc., Achillion Pharmaceuticals, Inc., Aerie Pharmaceuticals, Inc., Agios Pharmaceuticals, Inc., Amicus Therapeutics, Inc., Bluebird bio, Inc., Cempra, Inc., Clovis Oncology, Inc., Dermira, Inc., Intra-Cellular Therapies, Inc., Juno Therapeutics, Inc., Kite Pharma, Inc., MacroGenics, Inc., Ophthotech Corporation, Portola

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Pharmaceuticals, Inc., Prothena Corporation, plc., Puma Biotechnology, Inc., Sarepta Therapeutics, Inc., Spark Therapeutics, Inc., Synergy Pharmaceuticals, Inc. and Ultragenyx Pharmaceutical Inc.

We believe that the compensation practices and levels of our 2017 Peer Group provided us with appropriate compensation benchmarks for evaluating the compensation of our executive officers based on 2017 performance. Notwithstanding the similarities of the 2017 Peer Group to us, due to the nature of our business, we compete for executive talent with many public companies that are larger and more established than we are, or that possess greater resources than we do, and with smaller private companies that may be able to offer greater equity compensation potential, as well as with prestigious academic and non-profit institutions. Our Compensation Committee takes these factors into account in assessing executive compensation.

To achieve our objectives, our Compensation Committee evaluates our executive compensation program with the goal of setting total compensation at levels that align with a total rewards strategy appropriate for our size and stage. Specifically, our Compensation Committee targets compensation for our executive officers as follows:

- base salaries at or near market median of our 2017 Peer Group and, for top performers, between the market median and 75th percentile;
- annual cash incentive opportunity at approximately the market median of our 2017 Peer Group with significant variability in actual payments based on corporate and individual performance;
- total annual equity incentive awards, provided in the form of stock options, targeting between median and upper quartile of our 2017 Peer Group for target performance with achievement of exceptional corporate and individual performance resulting in upper quartile values to promote long-term ownership; and
- total compensation for our executives targeted at or near the market median of compensation paid to similarly situated executives of the companies in our 2017 Peer Group and between market median and the 75th percentile for top performers.

Our Compensation Committee may consider other criteria, including market factors; the experience level of the executive; his or her total responsibilities; the executive's contributions in helping to achieve established corporate goals; and overall contributions and performance, in determining variations to this general target range.

Key Performance Factors in Determining Executive Compensation

As the biopharmaceutical industry is characterized by a very long product development cycle, including a lengthy research and development period and a rigorous approval phase involving human testing and governmental regulatory approval, many of the traditional benchmarking metrics, such as product sales, revenues and profits are inappropriate for a clinical-stage biopharmaceutical company, such as Sage. Instead, the specific performance factors our Compensation Committee considers when determining the compensation of our named executive officers include:

- key research and development achievements;
- initiation and progress of clinical trials for our product candidates;
- progress of the build of our capabilities, infrastructure, processes and systems in preparation for a potential future commercial launch;
- expansion of our manufacturing and other operational capabilities on a global basis;
- achievement of regulatory milestones;
- new business initiatives including financings; and
- our progress in build-out of key functions and managing our growth while maintaining a high-performing organization and culture.

Annual corporate goals are proposed by our senior leadership team prior to the beginning of each year, and approved by our Board of Directors. During the last quarter of each year, our Compensation Committee, with the

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input of the senior leadership team, evaluates our corporate performance as compared to the corporate goals, and taking into account other corporate achievements and developments, assigns a corporate performance rating which is then assessed and approved by the full Board of Directors. Our Compensation Committee also evaluates the individual performance of our executive officers each year, with the input of our Board of Directors, in the case of our Chief Executive Officer's individual performance, and with the input of our Chief Executive Officer, in the case of the evaluation of the other executive officers. After the end of each year or beginning of next year, our Compensation Committee typically determines executive compensation levels, or in the case of our Chief Executive Officer, recommends compensation levels to our Board of Directors, based on the overall corporate performance against the established corporate goals, as well as each individual executive officer's contributions to achievement of the corporate goals and individual performance. Alternatively, our Board of Directors may decide to approve all executive officer compensation, not just that of our Chief Executive Officer, as a full board rather than at the committee level. In addition, our Compensation Committee or Board of Directors may apply its discretion, as it deems appropriate, in determining or recommending executive compensation.

In line with this process, our Compensation Committee assessed the performance of Jeffrey M. Jonas, M.D., our Chief Executive Officer, in 2017 based on the level of attainment of our corporate goals, and his leadership in execution of our strategic plans resulting in a substantial clinical-stage pipeline with strong drivers for future growth. In assessing the individual performance of our named executive officers, other than our Chief Executive Officer, the Compensation Committee, based on the input of our Chief Executive Officer, considered each such officer's individual contributions to completion of our goals, and the officer's individual achievements in helping to build our company and execute on our strategy. These achievements include the following:

- In 2017, Ms. Iguchi continued to guide our financing activities, well positioning us from a financial perspective to support the key initiatives in 2018 and beyond and continuing to focus on building and maintaining strong credibility with the investment community. Ms. Iguchi developed financing strategies, both short term and long term and built a strong book of investors. Internally, Ms. Iguchi continued to build strong finance, accounting, corporate communications, investor relations and business operations functions that support our development.
- In 2017, Mr. Cloonan created a robust and focused commercial launch plan including strategies, hiring and building the early foundation of a strong commercial team. He has provided leadership into the development of our portfolio strategy and in ensuring the growth of a robust pipeline across early and late stage development, as well as in the development of our medical affairs strategy across all programs.
- In 2017, Ms. Cook integrated Legal and Compliance into business planning and execution in all departments across our company. She provided leadership to the organization in connection with commercial launch preparations and for commercialization preparation efforts associated with the transition from a development Company to a commercial Company. She has continued to implement the appropriate policies and processes that protect us and reduce risk.
- In 2017, Dr. Kanesh led our clinical and regulatory teams to eight significant data read outs within tight timeframes, notably the successful completion of two placebo-controlled Phase 3 trials of brexanolone IV in PPD; and the successful completion of a placebo-controlled Phase 2 trial of SAGE-217 in MDD. He also made progress in the continued build-out of our clinical development team to support the robust portfolio from early development through late stage development.

In 2017, our Compensation Committee established the cash bonus opportunity for each member of our senior management team under our annual incentive program, representing a percentage of each individual's base salary. The bonus targets for 2017 performance for our named executive officers were 60% for Dr. Jonas, and 40% for each of Ms. Iguchi, Mr. Cloonan, Ms. Cook, and Dr. Kanesh. For 2017, our Chief Executive Officer's bonus was based entirely on performance relative to corporate goals and the bonuses paid to our other named executive officers were a function of both attainment of corporate goals and individual performance.

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Our Compensation Committee typically grants annual equity awards and determines changes in base salary and the amount of any cash incentive payments at its first regularly scheduled meeting of the new fiscal year, or in the case of our Chief Executive Officer, recommends compensation levels to our Board of Directors. Alternatively, our Board of Directors may decide to review and approve all executive officer compensation, not just that of our Chief Executive Officer, as a full board rather than at the committee level. Our Compensation Committee may also review the compensation of our executive officers throughout the course of the year. With respect to year-end reviews, any changes in base salary are effective at the beginning of the following year. The cash incentive payments awarded under our annual incentive bonus program for 2017 performance of our executive officers were paid in February 2018.

Base Salary

Base salary is intended to provide compensation for day-to-day performance. The Compensation Committee believes that a competitive base salary is a necessary element of any compensation program that is designed to attract and retain talented and experienced executives. Base salaries for our executive officers are intended to be competitive with those received by other individuals in similar positions at the companies with which we compete for talent. Base salaries are originally established at the time the executive is hired based on individual experience, skills and expected contributions, our understanding of what executives in similar positions at peer companies are paid, and also negotiations during the hiring process. The base salaries of our executive officers are reviewed annually and may be adjusted to reflect market conditions and our executives' performance during the prior year as well as our financial position, or if there is a change in the scope of the officer's responsibilities.

At the beginning of 2017, our Compensation Committee reviewed the base salary and overall compensation paid to Jeffrey M. Jonas, M.D., our Chief Executive Officer. Based on his accomplishments during the prior year and the comparison of his base salary to the base salary of chief executive officers in our 2016 Peer Group, the Compensation Committee recommended that our Board of Directors approve a performance and market adjustment increase in the annual base salary paid to Dr. Jonas from \$486,000 to \$600,000. Our Board of Directors agreed with the recommendation of the Compensation Committee.

At the beginning of 2017, our Compensation Committee approved salary increases in base salary for each of our other named executive officers serving at that time, based upon the executive officer's individual performance and the comparison of his or her base salary to the base salary of executive officers in comparable positions in our 2016 Peer Group. The table below sets forth the adjustments to base salary, in dollars and as a percentage, for each of our named executive officers serving at the beginning of 2017:

<u>Name</u>	2016	2017	<u>Increase (%)</u>
	<u>Base Salary</u>	<u>Base Salary</u>	
Jeffrey M. Jonas, M.D.	\$ 486,000	\$ 600,000	23.5%
Kimi Iguchi	\$ 324,480	\$ 356,928	10.0%
Michael Cloonan(1)	\$ —	\$ 440,000	— %
Stephen J. Kaness, M.D., Ph.D.	\$ 393,250	\$ 426,676	8.5%
Anne Marie Cook	\$ 363,694	\$ 376,423	3.5%

- (1) Mr. Cloonan joined us and became our Chief Business Officer in April 2017 and therefore did not receive any base salary during the fiscal year ending on December 31, 2016. Based on Mr. Cloonan's experience and an assessment of base salaries of chief business officers at our peer and similar companies, his annualized base salary was set at \$440,000.

Performance-Based Cash Incentive Bonus Program

Our Compensation Committee has the authority to award annual performance-based cash incentive bonuses to our executive officers, and to make recommendations to the full Board of Directors for approval of performance-

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based cash incentive bonuses for our Chief Executive Officer. The bonus targets for 2017 performance for our named executive officers were 60% for Dr. Jonas, and 40% for each of Ms. Iguchi, Mr. Cloonan, Ms. Cook, and Dr. Kanes.

In making its determination regarding awards based on performance in 2017 under our annual cash incentive program, our Compensation Committee considered our success against our 2017 corporate goals. The 2017 corporate goals approved by our Board of Directors, and the relative weightings assigned to each goal at the beginning of the year, were as follows:

- Advance clinical pipeline (40%)
 - Brexanolone IV:
 - Deliver topline data from Phase 3 clinical trial of brexanolone IV in SRSE and submission of New Drug Application (NDA) in SRSE;
 - Determine feasibility of alternative formulations of brexanolone;
 - Deliver topline data from two placebo-controlled Phase 3 clinical trials of brexanolone IV in PPD;
 - Deliver topline data from clinical trials of SAGE-217 in four indications: MDD, Parkinson's disease, PPD and essential tremor;
 - Initiate placebo-controlled Phase 2 clinical trial of SAGE-217 in MDD;
 - Initiate experimental medicine clinical trial with SAGE-217;
 - Secure a formulation and supply chain for SAGE-217 to support late stage development; and
 - Advance development of the NMDA platform by completing a Phase 1 single dose ascending (SAD) clinical trial of SAGE-718.
- Become recognized leader in CNS disorders (20%)
 - Deliver an innovative, focused multi-product pipeline, including by delivering a new development candidate; initiating one new lead optimization (LO) program; and maintaining two active LO programs; identifying functional biomarker for SAGE-718; delivering two new biomarker (physiological/biochemical/genetic) studies with samples from patient populations; and expanding exploratory discovery capability to support continued growth of pipeline; and
 - Grow external recognition of leadership position in CNS disorders through a focused and robust communication strategy.
- Drive business performance (20%)
 - Develop and execute financing strategy, including diversifying the stockholder base; and
 - Ensure readiness in 2018 for a successful product launch for brexanolone IV.
- People and organization leadership (20%)
 - Ensure that the right talent is in place to achieve our goals through robust talent management and staffing the organization with timely hires of high-quality employees; and
 - Drive work to ensure CNS leadership and achievement of our goals through building and running a differentiated organization focused on planning/governance, execution, people and the handshake and managing our culture and growth.

Our Compensation Committee determined that we made significant progress, and exceeded many of our clinical development and business goals in 2017, including:

- Successful completion of two placebo-controlled Phase 3 clinical trials of brexanolone in PPD;

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- Successful completion of a placebo-controlled Phase 2 clinical trial of Sage-217 in MDD and receipt of Fast Track Designation from the FDA for SAGE-217 in MDD;
- Progression of SAGE-718 into Phase 1 clinical development for the continued development of our NMDA program;
- Completion of a Phase 3 clinical trial of brexanolone IV in SRSE;
- Continued advancement of our early stage drug discovery and translational science work;
- Significant progress in our preparations for a potential commercial launch of brexanolone, including supply chain readiness;
- Successful completion of a financing; and
- Continued build-out across all functions of the high-performance organization needed to support advancement of a broad pipeline.

Based on our overall performance during 2017 in achieving our goals and in building strong value drivers for potential future growth, including the potential for NDA submission for brexanolone IV in the treatment of PPD in the first half of 2018, and a potential commercial launch, if approved, in the first half of 2019; the potential for late stage clinical development of SAGE-217 in MDD, based on the positive data from the Phase 2 placebo-controlled trial completed in 2017; expected further development of SAGE-217 in additional indications building on our efforts in 2017; and anticipated data read-outs in 2018 from an expanded Phase 2 clinical trial of SAGE-217 in PPD and a Phase 1 multiple ascending dose clinical trial of SAGE-718; potential NDA submission in the first half of 2018 and potential commercial launch in 2019, our Board of Directors assigned a corporate performance rating of 140% with respect to our corporate goals for 2017.

In February 2018, based on the above corporate goal achievement assessment, and individual performance, as noted above, in the case of executive officers other than our Chief Executive Officer, our Board of Directors, based on the recommendations of the Compensation Committee, approved performance-based cash incentive bonuses for our named executive officers for 2017 performance in the amounts listed below and the full Board of Directors also approved the performance-based cash incentive bonus for Dr. Jonas.

<u>Name</u>	
Jeffrey M. Jonas, M.D.	\$ 504,000
Kimi Iguchi	\$ 199,880
Michael Cloonan(1)	\$ 170,016
Stephen J. Kanes, M.D., Ph.D.	\$ 215,045
Anne Marie Cook	\$ 210,797

- (1) Michael Cloonan became our Chief Business Officer in April 2017 and received a prorated bonus for the fiscal year ended December 31, 2017.

Equity Incentive Compensation

Our equity incentive compensation program is designed to:

- reward demonstrated leadership and performance;
- align our executive officers' interests with those of our stockholders;
- retain our executive officers;
- maintain competitive levels of executive compensation; and
- motivate our executive officers for outstanding performance.

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The market for qualified and talented executives in the biopharmaceutical industry is highly competitive, and we compete for talent with many companies that have greater financial resources than we do. Accordingly, we believe equity compensation is a crucial component of any competitive executive compensation package we offer. Historically, our equity awards have generally taken the form of stock options. We typically grant stock options to each of our executive officers upon commencement of employment; annually in conjunction with our review of individual performance; in connection with a promotion; or as a special incentive.

All stock option awards to our executive officers are approved by our Compensation Committee and, other than stock option awards to new hires, are typically granted at our Compensation Committee's first regularly scheduled meeting at the beginning of the year. Stock option awards vary among our executive officers based on their positions and annual performance assessments as well as the other factors that the Compensation Committee deems relevant. In addition, our Compensation Committee reviews all components of the executive's compensation to ensure that his or her total compensation is aligned with our overall philosophy and objectives. All stock options granted to our executives have exercise prices equal to at least the fair market value of our common stock on the date of grant, so that the recipient will not earn any compensation from his or her options until they are vested and unless our share price increases above the exercise price on the date of grant. Accordingly, this portion of our executive officers' compensation is at risk, and is directly aligned with stockholder value creation.

In addition, the time-based portion of stock options granted to our executive officers typically vest over four years, which we believe provides an incentive to our executives to add value to the company over the long-term and to remain with Sage. Typically, the time-based portion of stock options we grant to our executives have a ten-year term, and vest as to 25% of the shares on the first anniversary of their hire date or date of grant and then monthly thereafter until the fourth anniversary of such date. The Compensation Committee also typically grants stock options to our executive officers that have a performance-based vesting component. A portion of the options granted to Dr. Jonas, Ms. Iguchi, Ms. Cook and Dr. Kanes in 2017 vest upon the achievement of clinical, regulatory, and commercial milestones that we believe are aligned with potential value creation for our stockholders. Vesting of option grants to employees ceases upon termination of employment, and exercise rights typically cease three months following termination of employment, except in the case of death or disability. Prior to the exercise of an option, the stock option holder does not have any rights as a stockholder with respect to the shares subject to such option, including voting rights and the right to receive dividends or dividend equivalents.

Our insider trading policy expressly prohibits short sales and derivative transactions of our stock by our named executive officers, directors and specified other employees, including short sales of our securities, including short sales "against the box," purchases or sales of puts, calls or other derivative securities of the company or any derivative securities that provide the economic equivalent of ownership of any of our securities or an opportunity, direct or indirect, to profit from any change in the value of our securities, or other hedging or monetization transactions accomplished through the use of prepaid variable forwards, equity swaps, collars and exchange funds. In addition, our insider trading policy expressly prohibits our named executive officers, directors and specified other employees from purchasing our securities on margin, borrowing against company securities held in a margin account, or pledging our securities as collateral for a loan.

Equity incentive grants to our named executive officers are made at the discretion of the Compensation Committee under the terms of our 2014 Stock Option and Incentive Plan, or the 2014 Plan, except for equity incentive grants for the Chief Executive Officer which are approved by the full Board of Directors. In 2017, the Compensation Committee made stock option grants to our named executive officers as specified in the "Grants of Plan-Based Awards" table below. Stock options have exercise prices equal to at least the fair market value of our common stock on the date of grant, and reward executive officers only if the stock price increases from the date of grant.

In determining the number of options to award to a named executive officer, the Compensation Committee typically considers a number of factors, including: our performance against corporate goals during the preceding

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year; the named executive officer's performance against individual goals during the preceding year, and competitive levels of executive compensation for similarly situated executives based on analysis of data from the our applicable peer group.

The number of options granted to each named executive officer in 2017 was based on our strong performance in 2016, for which the Board of Directors had assessed a corporate goal achievement score of 130%; such named executive officer's individual performance in 2016; and analysis of data from our 2016 Peer Group. Based on these factors, Dr. Jonas received a 2017 grant that was at the upper quartile of our 2016 Peer Group and Ms. Iguchi, Ms. Cook and Dr. Kanen received a 2017 grant that was at the median of our 2016 Peer Group. The options granted to the named executive officers in 2016, included both a time-based component (50% of the grant) and a performance-based component (50% of the grant). The performance milestones for the performance-based options granted to the named executive officers typically cover potential value-creation events that span over several years, and are intended to align the interests of our named executive officers with those of our stockholders. Mr. Cloonan was not an employee in 2016, and therefore did not receive an option grant in 2017 based on 2016 performance. However, upon becoming an employee in April of 2017, Mr. Cloonan was granted an option to purchase 185,000 shares of our common stock with an exercise price equal to the fair market value of our common stock on the day of the option grant, with one quarter of such option vesting on the one-year anniversary of Mr. Cloonan's employment and the rest on a monthly basis for three years thereafter. The size of Mr. Cloonan's grant was determined by the Compensation Committee after considering factors such as Peer Group grant practices for similar positions, his skills and experience, and what was appropriate to attract Mr. Cloonan to join the Company.

The following table sets forth information as of December 31, 2017 regarding shares of common stock that may be issued under our equity compensation plans, consisting of the 2011 Stock Option and Grant Plan, or the 2011 Plan, the 2014 Plan, our 2014 Employee Stock Purchase Plan, and our 2016 Inducement Equity Plan. Since the closing of our initial public offering, no additional equity awards have been made under our 2011 Plan. Our 2014 Plan contains an "evergreen" provision, which allows for an annual increase in the number of shares of stock available for issuance under the 2014 Plan on the first day of each year. The annual increase in the number of shares shall be increased by four percent of the number of shares of common stock issued and outstanding on the immediately preceding December 31, or such lesser number of shares determined by our Board of Directors or Compensation Committee. The 2016 Inducement Equity Plan was approved by the Board of Directors in December 2016 for use exclusively in the grant of equity awards to individuals who were not previously an employee or non-employee director of the company (or following a bona fide period of non-employment), as an inducement material to such individual's entering into employment with the company, pursuant to Rule 5635(c)(4) of the Nasdaq Listing Rules.

<u>Plan Category</u>	<u>Number of securities to be issued upon exercise of outstanding options and restricted stock units (#)</u>	<u>Weighted-average exercise price of outstanding options (\$)</u>	<u>Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in first column)</u>
Equity compensation plans approved by security holders	4,872,893(1)	\$ 38.71(2)(3)	993,896(4)
Equity compensation plans not approved by security holders(5)	742,800	\$ 75.33	1,257,200
Total	5,615,693	\$ 43.58	2,251,096

- (1) Consists of an aggregate of 4,843,793 shares of common stock issuable upon the exercise of outstanding options under the 2011 Plan and the 2014 Plan, and 29,100 shares subject to restricted stock units issued

under the 2014 Plan that will entitle the holder to one share of common stock for each unit that vests over the holder's period of continued service with us.

- (2) Does not include purchase rights accruing under the 2014 Employee Stock Purchase Plan because the purchase right (and therefore the number of shares to be purchased) will not be determined until the end of the purchase period.
- (3) The calculation does not take into account the 29,100 shares of common stock subject to outstanding restricted stock units. Such shares will be issued at the time the restricted stock units vest, without any cash consideration payable for those shares.
- (4) As of December 31, 2017, there were 741,965 shares available for grant under the 2014 Plan and 251,931 shares available for grant under the 2014 Employee Stock Purchase Plan.
- (5) Consists of the 2016 Inducement Equity Plan.

Stock Option Granting Practices

Delegation to Our Chief Executive Officer

Currently, all of our employees, including our named executive officers, are eligible to participate in our 2014 Plan. All new employees are granted stock options when they start employment either under the 2014 Plan or under the 2016 Inducement Equity Plan, and all continuing employees are eligible for stock option awards on an annual basis under the 2014 Plan based on performance and upon promotions to positions of greater responsibility. Our Compensation Committee has delegated to Dr. Jonas, our Chief Executive Officer, the authority to make stock option awards under our 2014 Plan within approved guidelines to new hires and in connection with promotions, other than grants to the leadership team members, which include the named executive officers. The number of stock options he may grant under the 2014 Plan to any one individual must be within the range specifically set by our Compensation Committee for these awards. The exercise price of such stock options must be equal to at least the closing price of our common stock on Nasdaq on the date of grant. With respect to stock option awards to new hires that are granted under the 2014 Plan, other than to leadership team members, Dr. Jonas typically provides that the award is to be granted to the new hire on the first business day of the calendar month following the date of his or her first date of regular employment. With respect to stock option awards made under the 2014 Plan in connection with promotions other than leadership team members, Dr. Jonas approves the award in connection with such promotion, and typically provides that the award is to be granted on the first business day of the calendar month following the date of such promotion. Dr. Jonas is required to maintain a list of stock options granted pursuant to such delegated authority, and report to our Compensation Committee regarding such awards. Awards made under the 2016 Inducement Equity Plan must be approved by the Compensation Committee through either a meeting, a written consent or the written approval of one of its designated members. Awards under the 2016 Inducement Equity Plan may only be made to individuals who were not previously an employee or non-employee director of ours (or following a bona fide period of non-employment), as an inducement material to such individual's entering into employment with us, pursuant to Rule 5635(c)(4) of the Nasdaq Listing Rules. Awards under the 2016 Inducement Equity Plan are typically granted to the new hire on the first business day of the calendar month following the date of his or her first date of regular employment.

Employee Benefits

In addition to the primary elements of compensation described above, the named executive officers also participate in the same broad-based employee benefits programs available to all of our employees, including health insurance, life and disability insurance, dental insurance and our 401(k) plan. We do not provide special benefits to our executive officers.

Other Compensation Program Features

In addition to our direct compensation elements, the following compensation program features are designed to align our executive team with stockholder interests and market best practices:

- we do not offer any tax gross-up payments to our executive team for any change-of-control payments;
- we prohibit our executive team from engaging in hedging transactions with our securities or pledging our securities; and
- we do not offer our executive team any substantially enhanced benefits or perquisites when compared to our overall employee population.

Compliance with IRS Code Section 162(m)

Section 162(m) of the Internal Revenue Code generally places a \$1.0 million limit on the amount of compensation a company can deduct in any one-year for certain executive officers. While the Compensation Committee considers tax deductibility as one factor in determining executive compensation, the Compensation Committee also looks at other factors in making its decisions, as noted above, and retains the flexibility to award compensation that it determines to be consistent with the goals of our executive compensation program even if the awards are not deductible by us for tax purposes. The exemption from Section 162(m)'s deduction limit for performance-based compensation has been repealed, effective for taxable years beginning after December 31, 2017, such that compensation paid to our named executive officers and certain other individuals in excess of \$1.0 million will not be deductible unless it qualifies for the limited transition relief applicable to certain arrangements in place as of November 2, 2017.

Despite the Compensation Committee's efforts to structure certain performance-based awards in a manner intended to be exempt from Section 162(m) and therefore not subject to its deduction limits, because of ambiguities and uncertainties as to the application and interpretation of Section 162(m) and the regulations issued thereunder, including the uncertain scope of the transition relief under the legislation repealing the performance-based compensation exemption from the deduction limit, no assurance can be given that compensation intended to satisfy the requirements for exemption from Section 162(m), in fact, will satisfy such requirements. Further, the Compensation Committee reserves the right to modify compensation that was initially intended to be exempt from Section 162(m) if it determines that such modifications are consistent with our business needs. The Compensation Committee believes that shareholder interests are best served if its discretion and flexibility in awarding compensation is not restricted, even though some compensation awards may result in non-deductible compensation expenses.

Rule 10b5-1 Sales Plans

Our policy governing transactions in our securities by directors, officers and employees permits our officers, directors and employees to enter into trading plans complying with Rule 10b5-1 under the Exchange Act. Generally, under these trading plans, the individual relinquishes control over the transactions once the trading plan is put into place. Accordingly, sales under these plans may occur at any time, including possibly before, simultaneously with, or immediately after significant events involving our company.

Executive Officer Stock Ownership Guidelines

Because of the importance of linking the interests of management and stockholders, in 2015, our Compensation Committee established stock ownership guidelines for our executive officers. These guidelines specify the number of shares that our executive officers must accumulate and hold within five years from the later of the effective date of implementation of the guidelines or the date the individual was hired or promoted to an executive officer position. Under the guidelines, ownership targets are set at a value greater than or equal to four times base salary in the case of our Chief Executive Officer, and greater than or equal to two times base salary in the case of our other executive officers. Unvested restricted stock and vested, unexercised in-the-money stock options count toward satisfying these ownership guidelines.

Compensation Risk Assessment

Our Compensation Committee periodically reviews and considers whether our compensation programs and policies create risks that are reasonably likely to have a material adverse effect on us. We believe that our executive compensation program does not encourage excessive or unnecessary risk taking. This is primarily due to the fact that our compensation programs are designed to encourage our executive officers and other employees to remain focused on both short-term and long-term strategic goals. We also have a Code of Business Conduct and Ethics in place to prevent conduct by our executive officers and other employees that is inconsistent with applicable laws and regulations. Disciplinary measures for violations of the Code of Business Conduct and Ethics may include a reduction or elimination of bonuses, termination of employment or restitution. In addition, the stock option agreements that govern stock options granted to our executive officers and other employees terminate in the event of termination of the individual's employment "for cause." As a result, we do not believe that our compensation programs are reasonably likely to have a material adverse effect on us.

Report of the Compensation Committee on Executive Compensation

Our Compensation Committee has reviewed and discussed the "Compensation Discussion and Analysis" required by Item 402(b) of Regulation S-K with management. Based upon such review and discussions, our Compensation Committee recommended to our Board of Directors that such section be included in this Proxy Statement and incorporated by reference in our Annual Report on Form 10-K for the year ended December 31, 2017, which was filed with the SEC on February 22, 2018.

By the Compensation Committee of the Board of Directors of Sage Therapeutics, Inc.,

Michael F. Cola (Chairman since March 2017)
James M. Frates
Steven Paul, M.D.

Executive Compensation

Summary Compensation Table

The following table sets forth the compensation earned during the fiscal years ended December 31, 2017, December 31, 2016, and December 31, 2015 for our chief executive officer, our chief financial officer and our next three highest-paid executive officers. We refer to these officers as our named executive officers.

Name and Principal Position	Year	Salary(\$)	Option Awards (\$)(1)	Bonus(\$)	Non-equity incentive plan compensation (\$)(2)	All Other Compensation (\$)(3)	Total(\$)
Jeffrey M. Jonas, M.D. President and Chief Executive Officer	2017	600,000	4,632,658	—	504,000	11,697	5,748,355
	2016	486,000	1,175,332	—	315,900	11,118	1,988,350
	2015	450,000	9,310,667	—	281,250	6,140	10,048,057
Kimi Iguchi Chief Financial Officer and Treasurer	2017	356,928	1,489,795	—	199,880	9,575	2,056,178
	2016	324,480	295,809	—	147,638	8,673	776,600
	2015	312,000	1,951,929	—	134,316	12,002	2,410,247
Michael Cloonan(4) Chief Business Officer	2017	301,795	9,439,278	125,000(5)	170,016	7,655	10,043,744
Stephen J. Kanen, M.D., Ph.D. Chief Medical Officer	2017	426,676	1,324,289	—	215,045	5,607	1,971,617
	2016	393,250	393,753	—	178,929	2,405	968,337
	2015	357,500	1,952,137	—	156,406	12,156	2,478,199
Anne Marie Cook Senior Vice President, General Counsel	2017	376,423	1,853,747	—	210,797	9,786	2,450,753
	2016	363,694	782,993	—	165,481	9,549	1,321,717
	2015	105,000(6)	4,512,164	50,000(7)	44,324	1,600	4,713,088

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- (1) The amounts reported in the “Option Awards” column above represent the grant date fair value of the stock options granted to such officers during 2015, 2016 and 2017 as computed in accordance FASB ASC, Topic 718, not including any estimates of forfeitures related to service-based vesting conditions. See note 8 of “Notes to Consolidated Financial Statements” in our Annual Report on Form 10-K filed with the SEC on February 22, 2018 for a discussion of assumptions made by us in determining the grant date fair value of our option awards. Note that the amounts reported in this column reflect the accounting cost for these stock options, and do not correspond to the actual economic value that may be received by the named executive officers from the options.
- (2) 2017 amounts represent cash bonus payments made in 2018 for performance in 2017. 2016 amounts represent cash bonus payments made in 2017 for performance in 2016 and 2015 amounts represent cash bonus payments made in 2016 for performance in 2015.
- (3) For 2017 and 2016, the amounts reported represent imputed income for company-paid life insurance and 401(k) matching contributions made by us.
- (4) Mr. Cloonan joined as our Chief Business Officer in April 2017. His 2017 salary has been prorated based on the number of calendar days since Mr. Cloonan joined the company.
- (5) Represents a signing bonus paid to Mr. Cloonan in accordance with his employment agreement.
- (6) Ms. Cook joined the Company as our Senior Vice President, General Counsel in September 2015 and therefore her 2015 salary reflects the time she was employed by us.
- (7) Represents a signing bonus paid to Ms. Cook in accordance with her employment agreement.

Grants of Plan-Based Awards

The following table shows information regarding grants of plan-based awards during the fiscal year ended December 31, 2017 to our named executive officers.

Name and Principal Position	Grant Date	Estimated Possible Payouts Under Non-Equity Incentive Plan Awards Target \$(1)	Estimated Payouts under Equity Incentive Plan Awards Target #(2)	All Other Option Awards: Number of Securities Underlying Options #(3)	Exercise or Base Price of Option Awards \$(/SH)(4)	Grant Date Fair Value of Stock and Option Awards\$(5)
Jeffrey M. Jonas, M.D. President and Chief Executive Officer	2/6/17	360,000	70,000	70,000	47.70	4,632,658
Kimi Iguchi Chief Financial Officer and Treasurer	2/6/17	142,772	22,500	22,500	47.70	1,489,795
Michael Cloonan(6) Chief Business Officer	5/1/17	121,440	—	185,000	73.43	9,439,2782
Stephen J. Kanes, M.D., Ph.D. Chief Medical Officer	2/6/17	170,670	20,000	20,000	47.70	1,324,289
Anne Marie Cook Senior Vice President, General Counsel	2/6/17	150,569	28,000	28,000	47.70	1,853,747

- (1) Represents the target amount of each executive’s cash payments under our 2017 annual incentive program as established by the Compensation Committee and described in “Compensation Discussion and Analysis” above. Actual payments made for 2017 are provided in the “Summary Compensation Table.”
- (2) Represents performance-based options granted in 2017 that are eligible to vest upon the achievement of clinical, regulatory and commercial milestones not yet achieved.
- (3) Represents options granted in 2017 with time-based vesting of which 25% vested on the first anniversary of the grant date, and the remainder will vest in equal installments over the 36 months following the first anniversary of the grant date.
- (4) The exercise price of these stock options was equal to the closing price of our common stock on Nasdaq on the grant date.
- (5) Amounts represent the grant date fair value of the named executive officer’s stock options granted in 2017, calculated in accordance with FASB ASC Topic 718, using a Black-Scholes valuation model. For purposes of these calculations, we have disregarded the estimate of forfeitures related to service-based or performance-based vesting conditions.

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(6) Mr. Cloonan joined as our Chief Business Officer in April 2017. The estimated possible payouts under non-equity incentive plan awards amount was prorated based on the number of calendar days since Mr. Cloonan joined the company.

Equity compensation

Outstanding equity awards as December 31, 2017

The following table sets forth information concerning the outstanding equity awards held by each of the named executive officers as of December 31, 2017.

Name	Number of securities underlying unexercised options exercisable(#)	Number of securities underlying unexercised options unexercisable(#)	Equity Incentive Plan Awards: Number of securities underlying unexercised unearned options (#)	Option exercise price(\$)	Option expiration date
Jeffrey M. Jonas, M.D. President and Chief Executive Officer	231,987(1)	—	—	\$ 0.45	8/12/2023
	131,250(2)	48,750	—	\$38.25	1/23/2025
	93,600(3)	—	50,400	\$38.25	1/23/2025
	27,500(4)	32,500	—	\$28.63	2/8/2026
	— (5)	70,000	—	\$47.70	2/6/2027
	— (6)	—	70,000	\$47.70	2/6/2027
Kimi Iguchi Chief Financial Officer and Treasurer	5,523(7)	—	—	\$ 0.45	9/24/2023
	50,528(8)	264	—	\$ 1.36	1/22/2024
	14,583(9)	5,417	—	\$38.25	1/23/2025
	31,200(10)	—	16,800	\$38.25	1/23/2025
	6,875(11)	8,125	—	\$28.63	2/8/2026
	— (12)	22,500	—	\$47.70	2/6/2027
	— (13)	—	22,500	\$47.70	2/6/2027
Michael Cloonan Chief Business Officer	— (14)	185,000	—	\$73.43	5/1/2027
Stephen J. Kanen, M.D., Ph.D. Chief Medical Officer	112,100(15)	—	—	\$ 0.45	7/23/2023
	6,609(16)	165	—	\$ 1.36	1/24/2024
	14,583(17)	5,417	—	\$38.25	1/23/2025
	31,200(18)	—	16,800	\$38.25	1/23/2025
	9,167(19)	10,883	—	\$28.63	2/8/2026
	— (20)	20,000	—	\$47.70	2/6/2027
	— (21)	—	20,000	\$47.70	2/6/2027
Anne Marie Cook Senior Vice President, General Counsel	61,875(22)	48,125	—	\$56.27	9/16/2025
	9,167(23)	10,833	—	\$28.63	2/8/2026
	10,000(24)	—	10,000	\$28.63	2/8/2026
	— (25)	28,000	—	\$47.70	2/6/2027
	— (26)	—	28,000	\$47.70	2/6/2027

- (1) Represents an option to purchase shares of our common stock granted on August 12, 2013. The shares underlying these options vest as follows: 25% vested on August 12, 2014, and the remainder of the shares vested in equal monthly installments over the following three years.
- (2) Represents an option to purchase shares of our common stock granted on January 23, 2015. The shares underlying these options vest as follows: 25% vested on January 23, 2016, with the remainder of the shares vesting in equal monthly installments over the following three years.

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- (3) Represents an option to purchase shares of our common stock granted on January 23, 2015. 35% of the shares underlying these options vested upon the achievement of a clinical milestone on August 14, 2015 and 30% of the shares underlying these options vested upon the achievement of a clinical milestone on December 8, 2016. 35% of the shares underlying these options shall vest upon the achievement of a regulatory milestone not yet achieved.
- (4) Represents an option to purchase shares of our common stock granted on February 8, 2016. The shares underlying these options vest as follows: 25% vested on February 8, 2017, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (5) Represents an option to purchase shares of our common stock granted on February 6, 2017. The shares underlying these options vest as follows: 25% vested on February 6, 2018, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (6) Represents an option to purchase shares of our common stock granted on February 6, 2017. 33%, 33% and 34%, respectively, of the shares underlying these options shall vest upon the achievement of commercial, clinical and regulatory milestones not yet achieved.
- (7) Represents an option to purchase shares of our common stock granted on September 24, 2013. The shares underlying these options vested as follows: 12.5% vested on September 24, 2013, and the remainder of the shares vested in equal monthly installments over the following 42 months.
- (8) Represents an option to purchase shares of our common stock granted on January 22, 2014. The shares underlying these options vest as follows: 37.5% vested in equal installments over a two-year period that commenced three months after the grant date. 37.5% vested monthly commencing one month after the closing of our initial public offering. 25% vested in equal monthly installments over a four-year period that commenced immediately after the grant date.
- (9) Represents an option to purchase shares of our common stock granted on January 23, 2015. The shares underlying these options vest as follows: 25% vested on January 23, 2016, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (10) Represents an option to purchase shares of our common stock granted on January 23, 2015. 35% of the shares underlying these options vested upon the achievement of a clinical milestone on August 14, 2015 and 30% of the shares underlying these options vested upon the achievement of a clinical milestone on December 8, 2016. 35% of the shares underlying these options shall vest upon the achievement of a regulatory milestone not yet achieved.
- (11) Represents an option to purchase shares of our common stock granted on February 8, 2016. The shares underlying these options vest as follows: 25% vested on February 8, 2017, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (12) Represents an option to purchase shares of our common stock granted on February 6, 2017. The shares underlying these options vest as follows: 25% vested on February 6, 2018, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (13) Represents an option to purchase shares of our common stock granted on February 6, 2017. 33%, 33% and 34%, respectively, of the shares underlying these options shall vest upon the achievement of commercial, clinical and regulatory milestones not yet achieved.
- (14) Represents an option to purchase shares of our common stock granted on April 23, 2017. The shares underlying these options vest as follows: 25% shall vest on April 23, 2018, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (15) Represents an option to purchase shares of our common stock granted on July 23, 2013. The shares underlying these options vest as follows: 25% vested on July 18, 2014, and the remainder of the shares vested in equal monthly installments over the following three years.
- (16) Represents an option to purchase shares of our common stock granted on January 22, 2014. The shares underlying these options vested in equal monthly installments over a four-year period that commenced immediately after the grant date.
- (17) Represents an option to purchase shares of our common stock granted on January 23, 2015. The shares underlying these options vest as follows: 25% vested on January 23, 2016, with the remainder of the shares vesting in equal monthly installments over the following three years.

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- (18) Represents an option to purchase shares of our common stock granted on January 23, 2015. 35% of the shares underlying these options vested upon the achievement of a clinical milestone on August 14, 2015 and 30% of the shares underlying these options vested upon the achievement of a clinical milestone on December 8, 2016. 35% of the shares underlying these options shall vest upon the achievement of a regulatory milestone not yet achieved.
- (19) Represents an option to purchase shares of our common stock granted on February 8, 2016. The shares underlying these options vest as follows: 25% vested on February 8, 2017, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (20) Represents an option to purchase shares of our common stock granted on February 6, 2017. The shares underlying these options vest as follows: 25% vested on February 6, 2018, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (21) Represents an option to purchase shares of our common stock granted on February 6, 2017. 33%, 33% and 34%, respectively, of the shares underlying these options shall vest upon the achievement of commercial, clinical and regulatory milestones not yet achieved.
- (22) Represents an option to purchase shares of our common stock granted on September 16, 2015. The shares underlying these options vest as follows: 25% vested on September 16, 2016, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (23) Represents an option to purchase shares of our common stock granted on February 8, 2016. The shares underlying these options vest as follows: 25% vested on February 8, 2017, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (24) Represents an option to purchase shares of our common stock granted on February 8, 2016. 50% of the shares underlying these options vested upon the achievement of a clinical milestone on December 8, 2016. 50% of the shares underlying these options shall vest upon the achievement of a regulatory milestone not yet achieved.
- (25) Represents an option to purchase shares of our common stock granted on February 6, 2017. The shares underlying these options vest as follows: 25% vested on February 6, 2018, with the remainder of the shares vesting in equal monthly installments over the following three years.
- (26) Represents an option to purchase shares of our common stock granted on February 6, 2017. 33%, 33% and 34%, respectively, of the shares underlying these options shall vest upon the achievement of commercial, clinical and regulatory milestones not yet achieved.

Option Exercises

The following table shows the number of shares acquired upon exercise of stock options by each of our named executive officers during the year ended December 31, 2017.

<u>Name</u>	<u>Option Awards</u>	
	<u>Number of shares acquired on exercise(#)</u>	<u>Value realized on exercise(\$)(1)</u>
Jeffrey M. Jonas, M.D.	173,000	27,055,411
Kimi Iguchi	—	—
Michael Cloonan	—	—
Stephen J. Kanen, M.D., Ph.D.	—	—
Anne Marie Cook	—	—

- (1) Value realized on exercise of stock option awards does not represent proceeds from any sale of any common stock acquired upon exercise, but is determined by multiplying the number of shares acquired upon exercise by the difference between the exercise price of the option and the closing price of our common stock on Nasdaq at each time of exercise.

CEO Pay Ratio

Pursuant to Section 953(b) of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Item 402(u) of Regulation S-K, we are required to disclose the ratio of our principal executive officer's annual total compensation to the annual total compensation of our median paid employee.

During fiscal year 2017, the principal executive officer of Sage was our President and Chief Executive Officer, Jeffrey M. Jonas, M.D. For 2017, the annual total compensation for Dr. Jonas was \$5,748,355 and the annual total compensation for our median employee was \$383,682, resulting in a pay ratio of approximately 15:1.

In accordance with Item 402(u) of Regulation S-K, we identified the median employee by (i) aggregating for each of our applicable employees on October 1, 2017 (the median employee determination date) (A) annual base salary for permanent salaried employees, or hourly rate multiplied by expected annual work schedule, for hourly employees, (B) the target incentive compensation for 2017, and (C) the estimated grant date fair value for all equity awards granted during 2017 and, (ii) ranking this compensation measure for our employees from lowest to highest. This calculation was performed for all employees as of the median employee determination date, excluding Dr. Jonas.

The pay ratio reported above is a reasonable estimate calculated in a manner consistent with SEC rules based on our internal records and the methodology described above. The SEC rules for identifying the median-compensated employee and calculating the pay ratio based on that employee's annual total compensation allow companies to adopt a variety of methodologies, to apply certain exclusions, and to make reasonable estimates and assumptions that reflect their employee populations and compensation practices. Therefore, the pay ratio reported by other companies may not be comparable to the pay ratio reported above, as other companies have different employee populations and compensation practices and may utilize different methodologies, exclusions, estimates and assumptions in calculating their own pay ratios.

Employment Agreements with Our Named Executive Officers

We have entered into an employment agreement or letter agreement with each of our named executive officers in connection with their employment with us. Except as noted below, these employment agreements and letter agreements provide for "at will" employment.

We entered into a letter agreement with Dr. Jonas in July 2013, and he assumed the role of Chief Executive Officer in August 2013. The agreement entitled Dr. Jonas to an initial base salary of \$425,000 and eligibility for performance-based variable cash compensation at a target of 40% of his base salary, based upon achievements agreed to between Dr. Jonas and the Board of Directors. Dr. Jonas received a signing bonus, with \$225,000 paid out during his first month of employment and an additional \$125,000 paid on the one-year anniversary of his employment. Dr. Jonas was also granted an option to purchase 701,587 shares of our common stock with an exercise price equal to the fair market value of our common stock on the day of the option grant, with one quarter of such option vesting on the one-year anniversary of Dr. Jonas' employment and the rest on a monthly basis for three years thereafter. Dr. Jonas received performance-based variable cash compensation of \$504,000 for 2017. As of March 31 2018, Dr. Jonas's base salary is \$642,000 and his performance-based variable cash compensation target is 60%.

We entered into a letter agreement with Ms. Iguchi in February 2013, and she assumed the role of Chief Financial Officer in March 2013. The agreement entitled Ms. Iguchi to an initial base salary of \$275,000. Ms. Iguchi was also granted a restricted stock award for 79,365 shares of our common stock with a per share purchase price equal to the fair market value of our common stock on the day of the grant, with one-eighth vesting immediately, and the rest on a monthly basis for four years thereafter. Ms. Iguchi is also eligible for performance-based variable cash compensation up to a percentage of her base salary, based upon attainment of

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corporate and individual goals, as agreed between Ms. Iguchi and the Chief Executive Officer and as approved by the Compensation Committee. Ms. Iguchi received performance-based variable cash compensation of \$199,880 for 2017. As of March 31, 2018, Ms. Iguchi's base salary is \$401,544 and her performance-based variable cash compensation target is 40%.

We entered into a letter agreement with Mr. Cloonan in March 2017, and he assumed the role of Chief Business Officer in April 2017. The agreement entitled Mr. Cloonan to an initial base salary of \$440,000. Mr. Cloonan received a signing bonus of \$125,000. Mr. Cloonan was also granted an option to purchase 185,000 shares of our common stock with an exercise price equal to the fair market value of our common stock on the day of the option grant, with one quarter of such option vesting on the one-year anniversary of Mr. Cloonan's employment and the rest on a monthly basis for three years thereafter. Mr. Cloonan is also eligible for performance-based variable cash compensation up to a percentage of his base salary, based upon attainment of corporate and individual goals, as agreed between Mr. Cloonan and the Chief Executive Officer and as approved by the Compensation Committee. Mr. Cloonan received performance-based variable cash compensation of \$170,016 for 2017 which was prorated for the period of time he worked in 2017. As of March 31, 2018, Mr. Cloonan's base salary is \$450,626 and his performance-based variable cash compensation target is 40%.

We entered into a letter agreement with Ms. Cook in August 2015, and she assumed the role of Senior Vice President and General Counsel in September 2015. The agreement entitles Ms. Cook to an initial base salary of \$360,000. Ms. Cook received a signing bonus of \$50,000. Ms. Cook was also granted an option to purchase 110,000 shares of our common stock with an exercise price equal to the fair market value of our common stock on the day of the option grant, with one quarter of such option vesting on the one-year anniversary of Ms. Cook's employment and the rest on a monthly basis for three years thereafter. Ms. Cook is also eligible for performance-based variable cash compensation up to a percentage of her base salary, based upon attainment of corporate and individual goals, as agreed between Ms. Cook and the Chief Executive Officer and as approved by the Compensation Committee. Ms. Cook received performance-based variable cash compensation of \$210,797 for 2017. As of March 31, 2018, Ms. Cook's base salary is \$414,065 and her performance-based variable cash compensation target is 40%.

We entered into a letter agreement with Dr. Kanes in May 2013, and he assumed the role of Chief Medical Officer in August 2013. The agreement entitled Dr. Kanes to an initial base salary of \$325,000. Dr. Kanes received a signing bonus, with \$65,000 paid out during his first month of employment, and an additional \$65,000 paid on the one-year anniversary of his employment. Dr. Kanes was also granted an option to purchase 222,222 shares of our common stock with an exercise price equal to the fair market value of our common stock on the day of the option grant, with one quarter of such option vesting on the one-year anniversary of Dr. Kanes' employment and the rest on a monthly basis for three years thereafter. Dr. Kanes is eligible for performance-based variable cash compensation of up to a percentage of his base salary, based upon attainment of corporate and individual goals, as agreed between Dr. Kanes and the Chief Executive Officer and as approved by the Compensation Committee. Dr. Kanes received performance-based variable cash compensation of \$215,045 for 2017. As of March 31, 2018, Dr. Kanes' base salary is \$441,610 and his performance-based variable cash compensation target is 40%.

Pension Benefits

None of the named executive officers participate in or have account balances in qualified or non-qualified defined benefit plans sponsored by us as of December 31, 2017, and, as a result, there is not a pension benefits table included in this Proxy Statement.

Nonqualified Deferred Compensation

None of the name executive officers participate in or have account balances in nonqualified defined contribution or nonqualified deferred compensation plans maintained by us as of December 31, 2017, and, as a result, there is not a nonqualified deferred compensation table included in this Proxy Statement.

Payments Provided upon Termination without Cause and Change in Control

We have entered into severance and change in control agreements, or severance agreements, with each of Dr. Jonas, Ms. Iguchi, Mr. Cloonan, Ms. Cook and Dr. Kanes. Pursuant to their severance agreements, each of Dr. Jonas, Ms. Iguchi, Mr. Cloonan, Ms. Cook and Dr. Kanes is eligible to receive certain payments and benefits in the event that such officer's employment is terminated by us without "cause" (as defined in the applicable severance agreement), or in the event that such officer terminates his or her employment with "good reason" (as defined in the applicable severance agreement).

In the event that Dr. Jonas, Ms. Iguchi, Mr. Cloonan, Ms. Cook or Dr. Kanes terminates his or her employment with "good reason" or is terminated without "cause," other than in the event of a change of control, he or she is eligible to receive 12 months of base salary continuation and 12 months of COBRA continuation medical benefits subsidized by us, provided that the terminated executive officer executes, and does not revoke, a separation agreement and release of us and our affiliates.

Pursuant to their severance agreements, in the event that any of Dr. Jonas, Ms. Iguchi, Mr. Cloonan, Ms. Cook or Dr. Kanes terminates his or her employment with "good reason" or is terminated without "cause" within the 12 month period following a "change in control" (as defined in the applicable severance agreement), such officer will be eligible to receive a lump-sum cash payment equal to (i) 12 months (in the case of Dr. Jonas) and 9 months (for all others) of the executive's base salary, (ii) a pro rata portion of that individual's target performance-based cash compensation for that fiscal year based on the number of days worked in that fiscal year at the time of termination, and (iii) 12 times the monthly employer health insurance contribution, provided that in each case, each executive executes and does not revoke a separation agreement and release of us and our affiliates. In addition, all stock options and other stock-based awards with time-based vesting held by such officer shall immediately accelerate and become fully exercisable or nonforfeitable as of the date of termination.

Definitions

For purposes of the severance agreement with each of Dr. Jonas, Ms. Iguchi, Mr. Cloonan, Ms. Cook and Dr. Kanes "cause" means:

- indictment for any felony, any crime involving us, or any crime involving fraud, moral turpitude or dishonesty;
- any unauthorized use or disclosure of or proprietary information;
- any intentional misconduct or gross negligence on the officer's part which has a materially adverse effect on our business or reputation; or
- the officer's repeated and willful failure to perform the duties, functions and responsibilities of the officer's position after a written warning from us.

For purposes of the severance agreements with each of Dr. Jonas, Ms. Iguchi, Mr. Cloonan, Ms. Cook and Dr. Kanes "good reason" means:

- a material diminution in the officer's responsibilities, authority or duties;
- a material diminution in the officer's base salary except for across-the-board salary reductions based on our financial performance similarly affecting all or substantially all our senior management employees;
- a material change, defined as 50 miles or more, in the geographic location at which such officer is required to provide services to our company, not including business travel and short-term assignments; or
- a material breach of the severance agreement by our company.

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For purposes of the severance agreements with each of Dr. Jonas, Ms. Iguchi, Mr. Cloonan, Ms. Cook and Dr. Kanen a “change in control” shall be deemed to have occurred upon the occurrence of any one of the following events:

- the sale of all or substantially all of our assets on a consolidated basis to an unrelated person or entity;
- a merger, reorganization or consolidation pursuant to which the holders of our outstanding voting power and outstanding stock immediately prior to such transaction do not own a majority of the outstanding voting power and outstanding stock or other equity interests of the resulting or successor entity (or its ultimate parent, if applicable) immediately upon completion of such transaction;
- the sale of all of our stock to an unrelated person, entity or group thereof acting in concert; or
- any other transaction in which the owners of our outstanding voting power immediately prior to such transaction do not own at least a majority of the outstanding voting power of our company or any successor entity immediately upon completion of the transaction other than as a result of the acquisition of securities directly from our company.

Estimated Payment and Benefits Upon Termination or Change of Control

The amount of compensation and benefits payable to each named executive officer in various termination and change in control situations has been estimated in the tables below. The value of the option vesting acceleration was calculated for each of the tables below based on the assumption that the change in control and executive’s employment termination occurred on December 31, 2017. The closing price of our stock on Nasdaq as of December 29, 2017, the last trading day of 2017, was \$164.71, which was used as the value of the our stock in the change in control. The value of the option vesting acceleration was calculated by multiplying the number of unvested option shares subject to vesting acceleration as of December 31, 2017 by the difference between the closing price of our stock as of December 29, 2017 and the exercise price for such unvested option shares.

Dr. Jeffrey M. Jonas

The following table describes the potential payments and benefits upon employment termination for Jeffrey M. Jonas, M.D., our President and Chief Executive Officer, as if his employment terminated as of December 31, 2017.

Executive Benefits and Payment upon Termination	Voluntary Resignation not For Good Reason	Voluntary Resignation For Good Reason	Termination by Company not for Cause	Termination By Company for Cause	Upon a Sale Event	Termination by Company without Cause or Voluntary Resignation for Good Reason in Connection with or Following Change in Control
Compensation:						
Base salary	—	\$ 600,000(1)	\$ 600,000(1)	—	—	\$ 600,000(2)
Cash incentive bonus	—	—	—	—	—	\$ 360,000(3)
Stock options unvested and accelerated	—	—	—	—	—	\$ 18,778,225(4)
Benefits and Perquisites:						
Health care continuation	—	\$ 19,823(5)	\$ 19,823(5)	—	—	\$ 19,823(5)
Total	0	\$ 619,823	\$ 619,823	0	0	\$ 19,758,048

(1) 12 months of 2017 base salary continuation.

(2) 12 months of base salary prior to the termination, payable in a lump sum.

(3) Target bonus for 2017, assuming bonus compensation is fully earned and unpaid.

(4) Acceleration of 100% of Dr. Jonas’s then unvested options.

(5) Cash payment equal to the COBRA health and dental insurance premiums for Dr. Jonas for 12 months.

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Ms. Kimi Iguchi

The following table describes the potential payments and benefits upon employment termination for Kimi Iguchi, our Chief Financial Officer and Treasurer, as if her employment terminated as of December 31, 2017.

Executive Benefits and Payment upon Termination	Voluntary Resignation not For Good Reason	Voluntary Resignation For Good Reason	Termination by Company not for Cause	Termination By Company for Cause	Upon a Sale Event	Termination by Company without Cause or Voluntary Resignation for Good Reason in Connection with or Following Change in Control
Compensation:						
Base salary	—	\$ 356,928(1)	\$ 356,928(1)	—	—	\$ 267,696(2)
Cash incentive bonus	—	—	—	—	—	\$ 142,771(3)
Stock options unvested and accelerated	—	—	—	—	—	\$ 4,466,533(4)
Benefits and Perquisites:						
Health care continuation	—	\$ 13,906(5)	\$ 13,906(5)	—	—	\$ 13,906(5)
Total	0	\$ 370,834	\$ 370,834	0	0	\$ 4,890,906

- (1) 12 months of 2017 base salary continuation.
- (2) 9 months of base salary prior to the termination, payable in a lump sum.
- (3) Target bonus for 2017, assuming bonus compensation is fully earned and unpaid.
- (4) Acceleration of 100% of Ms. Iguchi's then unvested options.
- (5) Cash payment equal to the COBRA health and dental insurance premiums for Ms. Iguchi for 12 months.

Mr. Michael Cloonan

The following table describes the potential payments and benefits upon employment termination for Michael Cloonan, our Chief Business Officer, as if his employment terminated as of December 31, 2017.

Executive Benefits and Payment upon Termination	Voluntary Resignation not For Good Reason	Voluntary Resignation For Good Reason	Termination by Company not for Cause	Termination By Company for Cause	Upon a Sale Event	Termination by Company without Cause or Voluntary Resignation for Good Reason in Connection with or Following Change in Control
Compensation:						
Base salary	—	\$ 440,000(1)	\$ 440,000(1)	—	—	\$ 330,000(2)
Cash incentive bonus	—	—	—	—	—	\$ 121,440(3)
Stock options unvested and accelerated	—	—	—	—	—	\$ 16,886,800(4)
Benefits and Perquisites:						
Health care continuation	—	\$ 19,823(5)	\$ 19,823(5)	—	—	\$ 19,823(5)
Total	0	\$ 459,823	\$ 459,823	0	0	\$ 17,358,063

- (1) 12 months of 2017 base salary continuation.
- (2) 9 months of base salary prior to the termination, payable in a lump sum.
- (3) Prorated target bonus for 2017, assuming bonus compensation is fully earned and unpaid
- (4) Acceleration of 100% of Mr. Cloonan's then unvested options.
- (5) Cash payment equal to the COBRA health and dental insurance premiums for Mr. Cloonan for 12 months.

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Ms. Anne Marie Cook

The following table describes the potential payments and benefits upon employment termination for Anne Marie Cook, our Senior Vice President, General Counsel, as if her employment terminated as of December 31, 2017.

Executive Benefits and Payment upon Termination	Voluntary Resignation not For Good Reason	Voluntary Resignation For Good Reason	Termination by Company not for Cause	Termination By Company for Cause	Upon a Sale Event	Termination by Company without Cause or Voluntary Resignation for Good Reason in Connection with or Following Change in Control
Compensation:						
Base salary	—	\$ 376,423(1)	\$ 376,423(1)	—	—	\$ 282,317(2)
Cash incentive bonus	—	—	—	—	—	\$ 150,569(3)
Stock options unvested and accelerated	—	—	—	—	—	\$ 9,969,110(4)
Benefits and Perquisites:						
Health care continuation	—	\$ 7,040(5)	\$ 7,040(5)	—	—	\$ 7,040(5)
Total	0	\$ 383,463	\$ 383,463	0	0	\$ 10,409,036

- (1) 12 months of 2017 base salary continuation.
- (2) 9 months of base salary prior to the termination, payable in a lump sum.
- (3) Target bonus for 2017, assuming bonus compensation is fully earned and unpaid.
- (4) Acceleration of 100% of Ms. Cook's then unvested options.
- (5) Cash payment equal to the COBRA health and dental insurance premiums for Ms. Cook for 12 months.

Dr. Stephen J. Kanes

The following table describes the potential payments and benefits upon employment termination for Stephen J. Kanes, M.D., Ph.D., our Chief Medical Officer, as if his employment terminated as of December 31, 2017.

Executive Benefits and Payment upon Termination	Voluntary Resignation not For Good Reason	Voluntary Resignation For Good Reason	Termination by Company not for Cause	Termination By Company for Cause	Upon a Sale Event	Termination by Company without Cause or Voluntary Resignation for Good Reason in Connection with or Following Change in Control
Compensation:						
Base salary	—	\$ 427,676(1)	\$ 426,676(1)	—	—	\$ 320,007(2)
Cash incentive bonus	—	—	—	—	—	\$ 170,670(3)
Stock options unvested and accelerated	—	—	—	—	—	\$ 4,526,342(4)
Benefits and Perquisites:						
Health care continuation	—	\$ 19,823(5)	\$ 19,823(5)	—	—	\$ 19,823(5)
Total	0	\$ 446,499	\$ 446,499	0	0	\$ 5,036,842

- (1) 12 months of 2017 base salary continuation.
- (2) 9 months of base salary prior to the termination, payable in a lump sum.
- (3) Target bonus for 2017, assuming bonus compensation is fully earned and unpaid.
- (4) Acceleration of 100% of Dr. Kanes' then unvested options.
- (5) Cash payment equal to the COBRA health and dental insurance premiums for Dr. Kanes for 12 months.

Director Compensation

The following table sets forth a summary of the compensation we paid to our nonemployee directors during 2017. Other than as set forth in the table and described in the next sentence or more fully below, we did not pay any cash compensation, reimburse any expense of, make any equity awards or non-equity awards to, or pay any other compensation to any of the nonemployee members of our Board of Directors in 2017. We reimburse nonemployee directors for reasonable travel expenses. Dr. Jonas, our President and Chief Executive Officer, receives no compensation for his service as a director, and, consequently, is not included in this table. The compensation received by Dr. Jonas as an employee during 2017 is presented in the “Summary Compensation Table.”

Name(1)	Fees Earned or Paid in Cash (\$)	Option Awards \$(2)	All Other Compensation (\$)	Total (\$)
Steven Paul, M.D.	55,632	669,881	—	725,513
Kevin P. Starr	77,912	669,881	—	747,793
Howard Pien(3)	36,094	352,358	—	388,452
James M. Frates	58,750	669,881	—	728,631
Michael F. Cola	61,222	669,881	—	731,103
Geno Germano	46,251	669,881	—	716,132
Asha Nayak(4)	—	902,666	—	902,666

- (1) The aggregate number of stock option awards outstanding as of December 31, 2017 for the non-employee members of the Board of Directors was: Dr. Paul: 41,844, Mr. Starr: 41,844, Mr. Pien: 0, Mr. Frates: 65,653, Mr. Cola: 62,677, Mr. Germano: 34,883 and Dr. Nayak: 20,883.
- (2) Except for option awards made to Howard Pien, amounts for option awards represent the aggregate grant-date fair value of option awards granted to our directors in 2017 computed in accordance with FASB ASC Topic 718. The assumptions used in the valuation of these awards are consistent with the valuation methodologies specified in the notes to our consolidated financial statements and discussions in “Management’s Discussion and Analysis of Financial Condition and Result of Operations.” included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, as filed with the SEC. The amount represents the Black-Scholes value as of June 7, 2017 for 13,922 shares subject to Mr. Pien’s stock option granted on June 22, 2016 that were accelerated by 15 days to become vested and exercisable as a result of his retirement from the Board of Directors at the 2017 annual meeting. The amounts above reflect our aggregate accounting expense for these awards and do not necessarily correspond to the actual value that will be recognized by the directors.
- (3) Mr. Pien resigned from our Board of Directors in June 2017.
- (4) Dr. Nayak joined our Board of Directors in November 2017.

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In April 2014, our Board of Directors adopted a nonemployee director compensation policy, as amended on March 5, 2015, December 15, 2016 and September 19, 2017, that is designed to provide a total compensation package that enables us to attract and retain, on a long-term basis, high caliber nonemployee directors. The March 5, 2015 amendment to our nonemployee director compensation policy added a cash retainer for service on the Science and Technology Committee, prior to which there had been none. The table below shows the cash retainers our directors are eligible to receive under our current nonemployee director compensation policy.

	<u>Annual Retainer</u>
Board of Directors:	
All nonemployee members	\$ 40,000
Additional retainer for Non-Executive Chairman of the Board	\$ 40,000
Audit Committee:	
Chairman	\$ 15,000
Non-Chairman members	\$ 7,500
Compensation Committee:	
Chairman	\$ 10,000
Non-Chairman members	\$ 5,000
Nominating and Corporate Governance Committee:	
Chairman	\$ 7,500
Non-Chairman members	\$ 3,000
Science & Technology Committee:(1)	
Chairman	\$ 10,000
Non-Chairman members	\$ 5,000

- (1) Until March 2017, the Board also had a Science and Technology Committee, which consisted of Jeffrey M. Jonas, M.D., Michael F. Cola and Steven Paul, M.D., with Michael F. Cola and Steven Paul, M.D. serving as co-chairmen. The Science and Technology Committee was changed to a Board forum in March 2017.

Under the nonemployee director compensation policy, each person who is initially appointed or elected to the Board of Directors will be eligible for an option grant to purchase up to 20,883 shares of our common stock under our stock option plan on the date he or she first becomes a nonemployee director, of which one third of such option will vest on the one-year anniversary of the grant date and the rest on a monthly basis for two years thereafter. In addition, on the date of the annual meeting of stockholders, each continuing nonemployee director will be eligible to receive an annual option grant to purchase up to 14,000 shares of our common stock, which will vest in full upon the earlier of the first anniversary of the date of grant or the date of the following annual meeting of stockholders. All of the foregoing options will have an exercise price per share equal to the fair market value of a share of common stock on the date of grant.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth certain information regarding beneficial ownership of our common stock as of March 31, 2018, for each person known to us to be the beneficial owner of more than five percent of our outstanding common stock; each of our named executive officers; each of our directors and nominees; and all of our directors and executive officers as a group.

Beneficial ownership is determined in accordance with the rules of the SEC and generally includes voting or investment power with respect to securities. Except as noted by footnote, and subject to community property laws where applicable, we believe, based on the information provided to us, that the persons and entities named in the table below have sole voting and investment power with respect to all shares of our common stock shown as beneficially owned by them.

The table lists applicable percentage ownership based on 46,458,298 shares of our common stock outstanding as of March 31, 2018. The number of shares beneficially owned includes shares of our common stock that each

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person has the right to acquire within 60 days of March 31, 2018, including upon the exercise of stock options. These stock options shall be deemed to be outstanding for the purpose of computing the percentage of outstanding shares of our common stock owned by such person but shall not be deemed to be outstanding for the purpose of computing the percentage of outstanding shares of our common stock owned by any other person.

Name and Address of Beneficial Owner(1)	Shares Beneficially Owned	
	Number	Percent
5% Stockholders		
T. Rowe Price Associates, Inc.(2)	6,311,317	13.6%
Entities Affiliated with Fidelity Investment(3)	6,237,519	13.4%
BlackRock, Inc.(4)	3,444,171	7.4%
The Vanguard Group, Inc.(5)	3,352,445	7.2%
Named Executive Officers and Directors		
Jeffrey M. Jonas, M.D.(6)	583,177	1.2%
Named Executive Officers		
Kimi Iguchi(7)	186,611	*
Michael Cloonan(8)	50,415	*
Stephen J. Kanes, M.D., Ph.D.(9)	188,130	*
Anne Marie Cook (10)	103,333	*
Other Directors		
Steven Paul, M.D.(11)	660,556	1.4%
Kevin P. Starr(12)	389,661	*
James M. Frates(13)	56,653	*
Michael F. Cola(14)	48,677	*
Geno Germano (15)	12,762	*
Asha Nayak (16)	3,481	*
All directors and executive officers as a group (12 persons)(17)	2,442,287	5.1%

* Indicates beneficial ownership of less than one percent.

- (1) Unless otherwise indicated, the address for each beneficial owner is c/o Sage Therapeutics, Inc., 215 First Street, Cambridge, Massachusetts 02142.
- (2) The address of T. Rowe Price Associates, Inc. ("T Rowe") is 100 E. Pratt Street, Baltimore, MD, 21202. Based solely on a Schedule 13G filed on February 14, 2018, consisting of 6,311,317 shares of common stock.
- (3) The address for Fidelity Management & Research Company, or Fidelity, is 245 Summer Street, Boston, Massachusetts 02210. A wholly owned subsidiary of FMR LLC and an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, Fidelity is the beneficial owner of shares of common stock as a result of acting as investment adviser to various investment companies, or Fidelity Funds, registered under Section 8 of the Investment Company Act of 1940. Based solely on a Schedule 13G filed by FMR LLC on February 13, 2018, consists of 6,237,519 shares of common stock held by entities affiliated with FMR LLC. Abigail P. Johnson is a Director, the Chairman and the Chief Executive Officer of FMR LLC. Members of the Johnson family, including Abigail P. Johnson, are the predominant owners, directly or through trusts, of Series B voting common shares of FMR LLC, representing 49% of the voting power of FMR LLC. The Johnson family group and all other Series B stockholders have entered into a stockholders' voting agreement under which all Series B voting common shares will be voted in accordance with the majority vote of Series B voting common shares. Accordingly, through their ownership of voting common shares and the execution of the stockholders' voting agreement, members of the Johnson family may be deemed, under the Investment Company Act of 1940, to form a controlling group with respect to FMR LLC. Neither FMR LLC nor Abigail P. Johnson has the sole power to vote or direct the voting of the shares owned directly by the various investment companies registered under the Investment Company Act ("Fidelity Funds") advised by Fidelity Management & Research Company ("FMR Co"), which power

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resides with the Fidelity Funds' Boards of Trustees. Fidelity Management & Research Company carries out the voting of the shares under written guidelines established by the Fidelity Funds' Boards of Trustees.

- (4) The address of BlackRock Inc. ("BlackRock") is 55 East 52nd Street, New York, NY 10055. BlackRock is the parent holding company of BlackRock (Netherlands) B.V., BlackRock Advisors (UK) Limited, BlackRock Asset Management Canada Limited, BlackRock Asset Management Ireland Limited, BlackRock Financial Management, Inc., BlackRock Institutional Trust Company, N.A., BlackRock International Ltd., BlackRock Investment Management (Australia) Limited, BlackRock Investment Management, LLC, BlackRock Investment Management (UK) Ltd, and BlackRock Japan Co Ltd. Based solely on a Schedule 13G filed on January 23, 2018, consisting of 3,363,405 shares of common stock.
- (5) The address of The Vanguard Group ("Vanguard") is 100 Vanguard Blvd., Malvern, PA 19355. Includes 71,355 shares beneficially owned by Vanguard Fiduciary Trust Company, a wholly-owned subsidiary of Vanguard, and 8,146 shares beneficially owned by Vanguard Investments Australia, Ltd., a wholly-owned subsidiary of Vanguard. Vanguard, Vanguard Fiduciary Trust Company and Vanguard Investments Australia, Ltd. have sole voting power over 74,346 shares, shared voting power over 5,155 shares, sole dispositive power over 3,275,935 shares and shared dispositive power over 76,510 shares. Based solely on a Schedule 13G filed on February 12, 2018.
- (6) Consists of 51,965 shares of our common stock owned directly, and 531,212 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (7) Consists of 66,961 shares of our common stock owned directly, and 119,650 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (8) Consists of 311 shares of our common stock owned directly, and 50,104 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (9) Consists of 23,889 shares of our common stock owned directly, and 164,241 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (10) Consists of 103,333 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (11) Consists of 632,712 shares of our common stock owned directly, and 27,844 shares of our common stock subject to options exercisable within 60 days of March 31, 2018.
- (12) Consists of 361,817 shares of our common stock owned by Mr. Starr directly, and 27,844 shares of common stock subject to options exercisable within 60 days of March 31, 2018. Does not include shares owned by Third Rock Ventures II, L.P. ("TRV LP"). Investment decisions with respect to the shares held by TRV LP are made by an investment committee at Third Rock Ventures II GP, L.P. ("TRV GP") comprised of Mark Levin, Kevin P. Starr, and Robert Tepper. No stockholder, director, officer, manager, member or employee of TRV GP or Third Rock Ventures II GP, LLC has beneficial ownership (within the meaning of Rule 13d-3 promulgated under the Exchange Act) of any shares held by TRV LP.
- (13) Consists of 5,000 shares of our common stock held by the James M. Frates GRAT U/A Dtd 03/17/2017, and 51,653 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (14) Consists of 48,677 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (15) Consists of 12,762 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (16) Consists of 3,481 shares of common stock subject to options exercisable within 60 days of March 31, 2018.
- (17) See footnotes 6 through 16 above. Consists of 1,238,339 shares of our common stock owned directly, and 1,203,948 shares of common stock subject to options exercisable within 60 days of March 31, 2018. Also includes shares of our common stock beneficially owned by our Chief Scientific Officer, Albert J. Robichaud.

EXECUTIVE OFFICERS

The following table identifies our executive officers, and sets forth their current positions at Sage and their ages as of April 9, 2018.

Name	Age	Position
Jeffrey M. Jonas, M.D.	65	President, Chief Executive Officer and Director
Kimi Iguchi	55	Chief Financial Officer
Michael Cloonan	47	Chief Business Officer
Anne Marie Cook	56	Senior Vice President, General Counsel, Secretary
Stephen J. Kanes, M.D., Ph.D.	53	Chief Medical Officer
Albert J. Robichaud, Ph.D.	57	Chief Scientific Officer

You should refer to “*Proposal 1: Election of Directors*” above for information about our President and Chief Executive Officer, Jeffrey M. Jonas, M.D. Biographical information for our other executive officers, as of April 9, 2018, is set forth below.

Kimi Iguchi. Ms. Iguchi has served as our Chief Financial Officer since March 2013. From 2011 to 2013, Ms. Iguchi provided financial consulting services to various companies. From 2008 to 2011, Ms. Iguchi served as the Chief Operating Officer, North America for Santhera Pharmaceuticals Holding AG. From 2004 to 2007, Ms. Iguchi held the role of Vice President of Finance at Cyberkinetics Neurotechnology Systems, Inc. From 1998 to 2004, Ms. Iguchi was the Senior Director of Financial Reporting and Analysis at Millennium Pharmaceuticals, Inc., and from 1996 to 1998 was the Senior Manager, External Reporting at Biogen, Inc. From 1987 to 1995, Ms. Iguchi also worked as a business assurance manager at PricewaterhouseCoopers LLP. Ms. Iguchi received her B.A. in chemistry from Drew University and an M.B.A. from Northeastern University.

Michael Cloonan. Mr. Cloonan has served as our Chief Business Officer since April 2017. Prior to joining us, Mr. Cloonan worked in various leadership positions at Biogen, Inc. from 2003 to 2017, including Senior Vice President, US Commercial from 2015 to 2017, Senior Vice President, Global Commercial Strategy from 2014 to 2015, Managing Director, Australia and New Zealand affiliate from 2011 to 2014, Vice President, Business Planning from 2010 to 2011, Senior Director, Patient Services US Commercial from 2008 to 2010, and Director, Business Planning from 2003 to 2008. Mr. Cloonan received his MBA from the Darden Graduate School of Business Administration at the University of Virginia and his B.A. in economics and accounting from the College of the Holy Cross.

Anne Marie Cook. Ms. Cook has served as our Senior Vice President, General Counsel since September 2015 and corporate Secretary since December 2015. Prior to joining us, she served from December 2011 to September 2015 as Senior Vice President, General Counsel of Aegerion Pharmaceuticals, Inc., a biopharmaceutical company. From December 2008 to December 2011, Ms. Cook was a partner at the law firm Choate Hall & Stewart LLP, where she represented both private and public corporations in the life sciences industry in structuring and negotiating strategic transactions and providing general legal support in connection with the research, development and commercialization of pharmaceutical products. From April 2007 to December 2008, Ms. Cook was a Principal at the law firm Miller Canfield P.L.C. From September 2005 until April 2007, Ms. Cook served as General Counsel and Senior Vice President, Business and Corporate Development, and Secretary of ViaCell, Inc., a biotechnology company. Prior to joining ViaCell, Ms. Cook spent thirteen years at Biogen Idec Inc., most recently as Vice President, Chief Corporate Counsel. Ms. Cook holds a B.S. degree from Tufts University and a J.D. degree from the University of Notre Dame Law School.

Stephen J. Kanes, M.D., Ph.D. Dr. Kanes has served as our Chief Medical Officer since July 2013. From 2012 to 2013, he served as the Chair of the neuroscience safety knowledge group at AstraZeneca plc, or AstraZeneca. From 2011 to 2013, Dr. Kanes served as the Executive Director—Therapeutic Area Clinical Director for the inflammation, neuroscience and respiratory GMED Division of AstraZeneca. From 2008 to 2012, Dr. Kanes

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served as the Medical Science Senior Director for the neuroscience established brands and emerging anesthesia Group Product Team and in other positions of increasing responsibility in the Neuroscience Discovery Medicine, early and late development groups of AstraZeneca. From 1999 to 2006, Dr. Kaner served as a practicing psychiatrist. Dr. Kaner was a faculty member in the Psychiatry Department at the University of Pennsylvania School of Medicine, where he continues to serve as an adjunct assistant professor of psychiatry. Dr. Kaner has authored or co-authored more than 30 peer-reviewed publications, and has served as an ad hoc reviewer for the journals Neuropsychopharmacology, American Journal of Medical Genetics, and Biological Psychiatry. Dr. Kaner received his B.A. from the University of Pennsylvania and both his Ph.D. and M.D. from State University of New York—Stony Brook. Dr. Kaner completed his psychiatry residency at Yale-New Haven Medical Center and postdoctoral fellowship at the University of Pennsylvania.

Albert J. Robichaud, Ph.D. Dr. Robichaud has served as our Chief Scientific Officer since November 2011. From 2010 to 2011, he was Vice President of Chemistry and Pharmacokinetic Sciences at Lundbeck, Inc., where he was responsible for the drug discovery, analytical, computational and pharmacokinetics departments focused on synaptic transmission and neuroinflammation. From 2002 to 2010, Dr. Robichaud was Senior Director and Head of the Neuroscience Discovery Chemistry department of Wyeth Research. During his tenure there, his group successfully delivered more than 15 drug candidates into clinical development in a broad range of neuroscience indications. Dr. Robichaud has co-authored more than 125 manuscripts and abstracts, and is a co-inventor on 45 patents and patent applications. Dr. Robichaud earned a B.S. in chemistry from Rensselaer Polytechnic Institute, a Ph.D. in organic chemistry from the University of California, Irvine and was an American Chemical Society postdoctoral fellow at Colorado State University.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

There have been no transactions or series of similar transactions since January 1, 2017, other than compensation arrangements, entered into to which we were a party or will be a party, in which:

- the amounts involved exceeded or will exceed \$120,000; and
- any of our directors, executive officers or holders of more than 5% of our capital stock, or any member of the immediate family of any of the foregoing persons or any affiliated entity, had or will have a direct or indirect material interest.

In connection with the completion of our initial public offering, or IPO, in July 2014, we adopted a related party policy that requires all future transactions between us and any director, executive officer, holder of 5% or more of any class of our capital stock or any member of the immediate family of, or entities affiliated with, any of them, or any other related persons (as defined in Item 404 of Regulation S-K) or their affiliates, in which the amount involved is equal to or greater than \$120,000, be approved in advance by our Audit Committee. Any request for such a transaction must first be presented to our Audit Committee for review, consideration and approval. In approving or rejecting any such proposal, our Audit Committee is to consider the relevant facts and circumstances available and deemed relevant to the Audit Committee, including, but not limited to, the extent of the related party's interest in the transaction, and whether the transaction is on terms no less favorable to us than terms we could have generally obtained from an unaffiliated third party under the same or similar circumstances.

COMPENSATION COMMITTEE INTERLOCKS AND INSIDER PARTICIPATION

Prior to March 2017, Howard Pien, Steven Paul, M.D. and James M. Frates served on our Compensation Committee, which was chaired by Howard Pien. As of March 2017, Michael F. Cola, Steven Paul, M.D. and James M. Frates serve on our Compensation Committee, which is chaired by Michael F. Cola. None of the members of our Compensation Committee has at any time during the last three years been one of our officers or employees or had any relationship requiring disclosure under Item 404 of Regulation S-K. None of our executive

officers currently serves, or in the past fiscal year has served, as a member of the Board of Directors or Compensation Committee of any entity that has one or more executive officers serving on our Board of Directors or Compensation Committee.

SECTION 16(A) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE

Section 16(a) of the Exchange Act requires our officers and directors and persons who beneficially own more than 10% of our outstanding common stock (collectively, "Reporting Persons") to file reports of beneficial ownership and changes in beneficial ownership with the SEC. Reporting Persons are required by SEC regulations to furnish us with copies of all Section 16(a) forms they file. Based solely on our review of copies of such filings we believe that all such persons complied on a timely basis with all Section 16(a) filing requirements during the fiscal year ended December 31, 2017, except that Mr. Cloonan did not timely file a Form 4 with respect to one transaction due to a delay in obtaining EDGAR codes.

Audit Committee Report

The Audit Committee operates under a written charter approved by the Board of Directors, which provides that its responsibilities include the oversight of the quality of our financial reports and other financial information and its compliance with legal and regulatory requirements; the appointment, compensation, and oversight of our independent registered public accounting firm, PricewaterhouseCoopers LLP, including reviewing their independence; reviewing and approving the planned scope of our annual audit; reviewing and pre-approving any non-audit services that may be performed by PricewaterhouseCoopers LLP; the oversight of our internal audit function; reviewing with management and our independent registered public accounting firm the adequacy of internal financial controls; and reviewing our critical accounting policies and estimates and the application of accounting principles generally accepted in the United States of America.

The Audit Committee oversees our financial reporting process on behalf of the Board of Directors. Management is responsible for our internal controls, financial reporting process, and compliance with laws and regulations and ethical business standards. PricewaterhouseCoopers LLP is responsible for performing an independent audit of our consolidated financial statements in accordance with the standards of the Public Company Accounting Oversight Board (United States). The Audit Committee's main responsibility is to monitor and oversee this process.

The Audit Committee reviewed and discussed our audited financial statements for the fiscal year ended December 31, 2017, with management. The Audit Committee discussed with PricewaterhouseCoopers LLP the matters required to be discussed by Public Company Accounting Oversight Board ("PCAOB") AU380, *Communications with Audit Committees*, and SEC Regulation S-X Rule 207, *Communications with Audit Committees*. The Audit Committee has received the written disclosures and the letter from the independent registered public accounting firm required by applicable requirements of the PCAOB regarding the independent registered public accounting firm's communications with the Audit Committee concerning independence, and has discussed with the independent registered public accounting firm the independent registered public accounting firm's independence.

The Audit Committee considered any fees paid to PricewaterhouseCoopers LLP for the provision of non-audit related services and does not believe that these fees compromise PricewaterhouseCoopers LLP's independence in performing the audit.

Based on the review and discussions referred to above, the Audit Committee recommended to the Board of Directors that such audited financial statements be included in our Annual Report on Form 10-K for the year ended December 31, 2017, for filing with the SEC.

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The information contained in this report shall not be deemed to be (1) “soliciting material,” (2) “filed” with the SEC, (3) subject to Regulations 14A or 14C of the Exchange Act, or (4) subject to the liabilities of Section 18 of the Exchange Act. This report shall not be deemed incorporated by reference into any of our other filings under the Exchange Act or the Securities Act, except to the extent that we specifically incorporate it by reference into such filing.

THE AUDIT COMMITTEE

James M. Frates, Chairman
Michael F. Cola
Steven Paul, M.D.

HOUSEHOLDING OF PROXY MATERIALS

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 Notice of Internet Availability of Proxy Materials, Proxy Statement, and Annual Report to Stockholders for the year ended December 31, 2017, as applicable, is being delivered to multiple stockholders sharing an address unless we have received contrary instructions. We will promptly deliver a separate copy of any of these documents to you if you write to us at 215 First Street, Cambridge, Massachusetts 02142, Attention: Secretary or call us at (617) 299-8380. If you want to receive separate copies of the Notice of Internet Availability of Proxy Materials, Proxy Statement, or Annual Report to Stockholders 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 record holder, or you may contact us at the above address or telephone number.

SAGE THERAPEUTICS, INC.
215 FIRST STREET
CAMBRIDGE, MA 02142

VOTE BY INTERNET - www.proxyvote.com

Use the Internet to transmit your voting instructions and for electronic delivery of information. Vote by 11:59 P.M. ET on 06/05/2018. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

ELECTRONIC DELIVERY OF FUTURE PROXY MATERIALS

If you would like to reduce the costs incurred by our company in mailing proxy materials, you can consent to receiving all future proxy statements, proxy cards and annual reports electronically via e-mail or the Internet. To sign up for electronic delivery, please follow the instructions above to vote using the Internet and, when prompted, indicate that you agree to receive or access proxy materials electronically in future years.

VOTE BY PHONE - 1-800-690-6903

Use any touch-tone telephone to transmit your voting instructions. Vote by 11:59 P.M. ET on 06/05/2018. Have your proxy card in hand when you access the web site and follow the instructions to obtain your records and to create an electronic voting instruction form.

VOTE BY MAIL

Mark, sign and date your proxy card and return it in the postage-paid envelope we have provided or return it to Vote Processing, c/o Broadridge, 51 Mercedes Way, Edgewood, NY 11717.

TO VOTE, MARK BLOCKS BELOW IN BLUE OR BLACK INK AS FOLLOWS:

KEEP THIS PORTION FOR YOUR RECORDS

THIS PROXY CARD IS VALID ONLY WHEN SIGNED AND DATED.

DETACH AND RETURN THIS PORTION ONLY

The Board of Directors recommends you vote FOR the following:

	For All	Withhold All	For All Except	To withhold authority to vote for any individual nominee(s), mark "For All Except" and write the number(s) of the nominee(s) on the line below.
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

1. Election of Directors

Nominees

01 Geno Germano 02 Steven Paul

The Board of Directors recommends you vote FOR proposals 2 and 3.

	For	Against	Abstain
2 To ratify the appointment of PricewaterhouseCoopers LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2018.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Approve, on an advisory basis, the compensation of the named executive officers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Please sign exactly as your name(s) appear(s) hereon. When signing as attorney, executor, administrator, or other fiduciary, please give full title as such. Joint owners should each sign personally. All holders must sign. If a corporation or partnership, please sign in full corporate or partnership name, by authorized officer.

Signature [PLEASE SIGN WITHIN BOX]	Date

Signature (Joint Owners)	Date

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting: The Notice & Proxy Statement and Annual Report are available at www.proxyvote.com

**SAGE THERAPEUTICS, INC.
Annual Meeting of Stockholders
June 6, 2018 9:00 AM
This proxy is solicited by the Board of Directors**

The stockholder(s) hereby appoint(s) Jeffrey M. Jonas, Kimi Iguchi and Anne Marie Cook, or any of them, as proxies, each with the power to appoint his or her substitute, and hereby authorizes them to represent and to vote, as designated on the reverse side of this proxy, all of the shares of common stock of SAGE THERAPEUTICS, INC. that the stockholder(s) is entitled to vote at the Annual Meeting of Stockholders to be held at 9:00 AM, ET on June 6, 2018 at 215 First Street, Cambridge, Massachusetts 02142, and any adjournments or postponements thereof.

This proxy, when properly executed, will be voted in the manner directed herein. If no such direction is made, this proxy will be voted in accordance with the Board of Directors' recommendations.

Continued and to be signed on reverse side