

bluebird bio, Inc.
Form DEF 14A
April 23, 2019

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the

Securities Exchange Act of 1934

(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 Pursuant to §240.14a-12

bluebird bio, Inc.

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if Other Than The Registrant)

Payment of Filing Fee (Check the appropriate box):

No fee required.

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

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- (2) Aggregate number of securities to which transaction applies:
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- (1) Amount Previously Paid:
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 - (4) Date Filed:
-

April 23, 2019

Dear Stockholder:

You are cordially invited to attend the 2019 Annual Meeting of Stockholders of bluebird bio, Inc. The meeting will be held on June 6, 2019 at 12:00 p.m. EDT at the offices of the Company, located at 60 Binney Street, Cambridge, Massachusetts.

Details regarding admission to the meeting and the business to be conducted are more fully described in the accompanying Notice of Annual Meeting and Proxy Statement.

At this Annual Meeting, the agenda includes the election of two Class III directors for three-year terms, the approval of executive compensation by a non-binding advisory vote, and the ratification of the appointment of Ernst & Young LLP as bluebird's independent registered public accounting firm for the fiscal year ending December 31, 2019.

Under Securities and Exchange Commission rules, the Company is providing access to the proxy materials for the Annual Meeting to stockholders via the Internet. Accordingly, you can access the proxy materials and vote at www.proxyvote.com. Instructions for accessing the proxy materials and voting are described below and in the Notice of Annual Meeting that you received in the mail. Your vote is very important. Whether or not you plan to attend the meeting, please carefully review the enclosed proxy statement and then cast your vote, regardless of the number of shares you hold. If you are a stockholder of record, you may vote over the Internet, by telephone, or, if you request to receive a printed set of the proxy materials, by completing, signing, dating and mailing the accompanying proxy card in the return envelope. Submitting your vote via the Internet or by telephone or proxy card will not affect your right to vote in person if you decide to attend the Annual Meeting. If your shares are held in street name (held for your account by a broker or other nominee), you will receive instructions from your broker or other nominee explaining how to vote your shares, and you will have the option to cast your vote by telephone or over the Internet if your voting instruction form from your broker or nominee includes instructions and a toll-free telephone number or Internet website to do so. In any event, to be sure that your vote will be received in time, please cast your vote by your choice of available means at your earliest convenience.

We hope that you will join us on June 6, 2019. Your continuing interest in bluebird is very much appreciated.

Sincerely,

Nick Leschly

President & Chief Executive Officer

NOTICE OF 2019 ANNUAL MEETING OF STOCKHOLDERS

Time 12:00 p.m., Eastern Time

Date June 6, 2019

Place The Company's offices at 60 Binney Street, Cambridge, Massachusetts 02142

Purpose To elect Wendy L. Dixon, Ph.D. and David P. Schenkein, M.D. as Class III members of the Board of Directors, to serve until the Company's 2022 Annual Meeting of Stockholders and until their successors are duly elected and qualified;

To hold a non-binding advisory vote on the compensation paid to the Company's named executive officers;

To ratify the selection of Ernst & Young LLP as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2019; and

To transact any other business that may properly come before the meeting or any adjournment thereof.

Record Date The Board of Directors has fixed the close of business on April 15, 2019 as the record date for determining stockholders entitled to notice of and to vote at the meeting.

Meeting Admission All stockholders as of the record date, or their duly appointed proxies, may attend the meeting. If you attend, you will be asked to present valid picture identification such as a driver's license or passport. If your bluebird stock is held in a brokerage account or by a bank or other nominee, you are considered the beneficial owner of shares held in street name, and this proxy statement is being forwarded to you by your broker or nominee. As a result, your name does not appear on our list of stockholders. If your stock is held in street name, in addition to picture identification, you should bring with you a letter or account statement showing that you were the beneficial owner of the stock on the record date, in order to be admitted to the meeting.

Voting by Proxy If you are a stockholder of record, please vote via the Internet or, for shares held in street name, please submit the voting instruction form you receive from your broker or nominee, as soon as possible so your shares can be voted at the meeting. You may submit your voting instruction form by mail. If you are a stockholder of record, you may also vote by telephone or by submitting a proxy card by mail. If your shares are held in street name, you will receive instructions from your broker or other nominee explaining how to vote your shares, and you may also have the choice of instructing the record holder as to the voting of your shares over the Internet or by telephone. Follow the instructions on the voting instruction form you received from your broker or nominee.

By order of the Board of Directors,

Jason F. Cole, Secretary

Cambridge, Massachusetts
April 23, 2019

Important Notice Regarding the Availability of Proxy Materials for the bluebird 2019 Annual Meeting of Stockholders to Be Held on June 6, 2019: The Notice of 2019 Annual Meeting of Stockholders, proxy statement and our Annual Report on Form 10-K for the fiscal year ended December 31, 2018, are available at www.bluebirdbio.com by following the link for “Investors & Media.” To obtain directions to our offices in order to attend the Annual Meeting in person, please visit the “Investors & Media –Events and Presentations” section of our website at www.bluebirdbio.com or contact Investor Relations at (339) 499-9300.

BLUEBIRD BIO, INC.

60 BINNEY STREET

CAMBRIDGE, MASSACHUSETTS 02142

PROXY STATEMENT

FOR THE 2019 ANNUAL MEETING OF STOCKHOLDERS

TO BE HELD ON JUNE 6, 2019

AT 12:00 PM EDT

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 23, 2019, we will begin mailing a Notice of Internet Availability of Proxy Materials, or Notice of Internet Availability, and the proxy materials, including the Notice of 2019 Annual Meeting of Stockholders, this proxy statement and accompanying proxy card or, for shares held in street name (held for your account by a broker or other nominee), voting instruction form, and the Annual Report on Form 10-K for the year ended December 31, 2018 will be 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 the SEC, we are providing access to our proxy materials over the Internet rather than printing and mailing the proxy materials. We believe electronic delivery will expedite the receipt of materials and will help lower our costs and reduce the environmental impact of our annual meeting materials. Therefore, a Notice of Internet Availability will be mailed to holders of record and beneficial owners of our common stock starting on or around April 23, 2019. The Notice of Internet Availability will provide instructions as to how stockholders may access and review the proxy materials, including the Notice of Annual Meeting, proxy statement, proxy card and Annual Report on Form 10-K, on the website referred to in the Notice of Internet Availability or, alternatively, how to request that a copy of the proxy materials, including a proxy card, be sent to them by mail. The Notice of Internet Availability 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 of Internet Availability, and our Notice of Annual Meeting, proxy statement and Annual Report on Form 10-K 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 document.

Who is soliciting my vote?

The Board of Directors of bluebird bio, Inc. (the “Company” or “bluebird”) is soliciting your vote for the 2019 Annual Meeting of Stockholders.

When is the record date for the Annual Meeting?

The Board of Directors has fixed the record date for the Annual Meeting as of the close of business on April 15, 2019.

How many votes can be cast by all stockholders?

A total of 55,117,234 shares of common stock of the Company were outstanding on April 15, 2019, and entitled to be voted at the meeting. Each share of common stock is entitled to one vote on each matter.

How do I vote?

If you are a stockholder of record and your shares are registered directly in your name, you may vote:

By Internet. Access the website of the Company's tabulator, Broadridge, at: www.proxyvote.com, using the voter control number printed on the furnished proxy card. Your shares will be voted in accordance with your instructions. You must specify how you want your shares voted or your Internet vote cannot be completed and you will receive an error message. If you vote on the Internet, you may also request electronic delivery of future proxy materials.

By Telephone. Call 1-800-690-6903 toll-free from the U.S., U.S. territories and Canada, and follow the instructions on the enclosed proxy card. Your shares will be voted in accordance with your instructions. You must specify how you want your shares voted or your telephone vote cannot be completed.

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By Mail. Complete and mail a proxy card in the enclosed postage prepaid envelope to Broadridge. Your proxy will be voted in accordance with your instructions. If you sign and return the enclosed proxy but do not specify how you want your shares voted, they will be voted FOR the director nominees named herein to the Company's Board of Directors, FOR the non-binding advisory resolution approving the compensation of the named executive officers, and FOR the ratification of Ernst & Young LLP as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2019 and will be voted according to the discretion of the proxy holder upon any other business that may properly be brought before the meeting and at all adjournments and postponements thereof. If you are mailed or otherwise receive or obtain a proxy card or voting instruction form, and you choose to vote by telephone or by Internet, you do not have to return your proxy card or voting instruction form.

In Person at the Meeting. If you attend the meeting, be sure to bring a form of personal picture identification with you, and you may deliver your completed proxy card in person, or you may vote by completing a ballot, which will be available at the meeting.

If your shares of common stock are held in street name (held for your account by a broker or other nominee):

By Internet or By Telephone. You will receive instructions from your broker or other nominee if you are permitted to vote by Internet or telephone.

By Mail. You will receive instructions from your broker or other nominee explaining how to vote your shares.

In Person at the Meeting. If you attend the meeting, in addition to picture identification you should both bring an account statement or a letter from the record holder indicating that you owned the shares as of the record date, and contact the broker or other nominee who holds your shares to obtain a broker's proxy card and bring it with you to the meeting.

What are the Board of Director's recommendations on how to vote my shares?

The Board of Directors recommends a vote:

Proposal 1: FOR election of the two Class III director nominees (page 5)

Proposal 2: FOR the non-binding advisory resolution approving the compensation of the Company's named executive officers (page 16)

Proposal 3: FOR ratification of the selection of Ernst & Young LLP as the Company's independent registered public accounting firm (page 49)

Who pays the cost for soliciting proxies?

bluebird will pay the cost for the solicitation of proxies by the Board of Directors. The solicitation of proxies will be made primarily by mail and through Internet access to materials. Proxies may also be solicited personally, by telephone, fax or e-mail by employees of bluebird without any remuneration to such individuals other than their regular compensation. bluebird will also reimburse brokers, banks, custodians, other nominees and fiduciaries for forwarding these materials to their principals to obtain the authorization for the execution of proxies.

Will my shares be voted if I do not return my proxy?

If your shares are registered directly in your name, your shares will not be voted if you do not vote over the Internet, by telephone, by returning your proxy or by ballot at the Annual Meeting. If your shares are held in street name, your bank, broker or other nominee may under certain circumstances vote your shares if you do not timely return your proxy. Banks, brokers and other nominees can vote customers' unvoted shares on routine matters, but cannot vote such shares on non-routine matters. If you do not timely return a proxy to your bank, broker or other nominee to vote your shares, your bank, broker or other nominee may, on routine matters, either vote your shares or leave your shares

unvoted. Your bank, broker or other nominee cannot vote your shares on any non-routine matter. The election of directors (Proposal 1) and the non-binding advisory vote on executive compensation (Proposal 2) are non-routine matters. The ratification of the appointment of our independent registered public accounting firm (Proposal 3) is a routine matter. We encourage you to provide voting instructions to your bank, broker or other nominee by giving your proxy to them. This ensures that your shares will be voted at the Annual Meeting according to your instructions. You should receive directions from your bank, broker or other nominee about how to submit your proxy to them at the time you receive this proxy statement.

Can I change my vote?

You may revoke your proxy at any time before it is voted by notifying the Secretary in writing, by returning a signed proxy with a later date, by transmitting a subsequent vote over the Internet or by telephone prior to the close of the Internet voting facility or the telephone voting facility, or by attending the meeting and voting in person. If your stock is held in street name, you must contact your broker or nominee for instructions as to how to change your vote.

How is a quorum reached?

The presence, in person or by proxy, of holders of at least a majority of the total number of outstanding shares entitled to vote is necessary to constitute a quorum for the transaction of business at the Annual Meeting. Shares held of record by stockholders or brokers, bankers or other nominees who do not return a signed and dated proxy or attend the Annual Meeting in person will not be considered present or represented at the Annual Meeting and will not be counted in determining the presence of a quorum. Abstentions and broker non-votes, if any, will be counted for purposes of determining whether a quorum is present for the transaction of business at the meeting.

What vote is required to approve each item and how are votes counted?

Votes cast by proxy or in person at the Annual Meeting will be counted by the persons appointed by bluebird to act as tabulators for the meeting. The tabulators will count all votes FOR and AGAINST, abstentions and broker non-votes, as applicable, for each matter to be voted on at the Annual Meeting. Abstentions and broker non-votes are not counted as votes cast and, therefore, do not have the effect of votes in opposition to 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.

• Proposal 1 – Election of two Class III director nominees

For the election of the two Class III director nominees, each director nominee presented must be elected by a majority of the votes cast in person or by proxy at the Annual Meeting. Director nominees are elected by a majority vote for non-contested director elections. Because the number of director nominees properly nominated for the Annual Meeting does not exceed the number of positions on the Board of Directors to be filled by election at the Annual Meeting, this election of directors is non-contested. To elect a director nominee to the Board of Directors, the votes cast FOR the director nominee must exceed the votes cast AGAINST. Only FOR and AGAINST votes will affect the outcome. Abstentions will have no effect on the voting of Proposal 1. Proposal 1 is a non-routine matter. Therefore, if your shares are held by your bank, broker or other nominee in street name and you do not vote your shares, your bank, broker or other nominee cannot vote your shares on Proposal 1. Shares held in street name by banks, brokers or nominees who indicate on their proxies that they do not have authority to vote the shares on Proposal 1 will not be counted as votes FOR or AGAINST any director nominee and will be treated as broker non-votes. As a result, broker non-votes will have no effect on the voting of Proposal 1.

• Proposal 2 – Non-binding advisory vote on executive compensation

For the non-binding advisory vote on executive compensation, the votes cast FOR must exceed the votes cast AGAINST to approve, on a non-binding advisory basis, the compensation of our named executive officers. Only FOR and AGAINST votes will affect the outcome. Abstentions will have no effect on the voting of Proposal 2. Proposal 2 is a non-routine matter. Therefore, if your shares are held by your bank, broker or other nominee in street name and you do not vote your shares, your bank, broker or other nominee cannot vote your shares on Proposal 2. Shares held in street name by banks, brokers or nominees who indicate on their proxies that they do not have authority to vote the shares on Proposal 2 will not be counted as votes FOR or AGAINST the proposal and will be treated as broker non-votes. As a result, broker non-votes will have no effect on the voting of Proposal 2.

Proposal 3 – Ratification of selection of Ernst & Young LLP as our independent registered public accounting firm
For the ratification of the selection of Ernst & Young LLP as our independent registered public accounting firm for our 2019 fiscal year, the votes cast FOR must exceed the votes cast AGAINST. Only FOR and AGAINST votes will affect the outcome. Abstentions will have no effect on the voting of Proposal 3. Proposal 3 is a routine matter. Therefore, if your shares are held by your bank, broker or other nominee in street name and you do not vote your shares, your bank, broker or other nominee may vote your shares on Proposal 3.

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If there are insufficient votes to approve Proposal(s) 1, 2, or 3, your proxy may be voted by the persons named in the proxy to adjourn the Annual Meeting in order to solicit additional proxies in favor of the approval of such proposal. If the Annual Meeting is adjourned or postponed for any purpose, at any subsequent reconvening of the meeting, your proxy will be voted in the same manner as it would have been voted at the original convening of the Annual Meeting unless you withdraw or revoke your proxy. Your proxy may be voted in this manner even though it may have been voted on the same or any other matter at a previous session of the Annual Meeting.

Could other matters be decided at the Annual Meeting?

bluebird does not know of any other matters that may be presented for action at the Annual Meeting. Should any other business come before the meeting, the persons named on the enclosed proxy will have discretionary authority to vote the shares represented by such proxies in accordance with their best judgment. If you hold shares through a broker, bank or other nominee as described above, they will not be able to vote your shares on any other business that comes before the Annual Meeting unless they receive instructions from you with respect to such matter.

What happens if the meeting is postponed or adjourned?

Your proxy may be voted at the postponed or adjourned meeting. You will still be able to change your proxy until it is voted.

How can I find out the results of the voting at the Annual Meeting?

Preliminary voting results will be announced at the Annual Meeting. Final voting results will be published in a Current Report on Form 8-K, or Form 8-K, that we expect to file with the SEC within four business days after the Annual Meeting. If final voting results are not available to us in time to file a Form 8-K within four business days after the Annual Meeting, we intend to file a Form 8-K to publish preliminary results and, within four business days after the final results are known to us, file an additional Form 8-K to publish the final results.

What does it mean if I receive more than one proxy card or voting instruction form?

It means that you have multiple accounts at the transfer agent or with brokers. Please complete and return all proxy cards or voting instruction forms to ensure that all of your shares are voted.

Who should I call if I have any additional questions?

If you hold your shares directly, please call Jason F. Cole, Secretary of the Company, at (339) 499-9300. If your shares are held in street name, please contact the telephone number provided on your voting instruction form or contact your broker or nominee holder directly.

PROPOSAL 1: ELECTION OF DIRECTORS

In accordance with Delaware law and our certificate of incorporation and By-laws, the Board of Directors is divided into three classes of approximately equal size. The members of each class are elected to serve a three-year term with the term of office of each class ending in successive years. Wendy L. Dixon, David P. Schenkein, and James Mandell are the directors whose terms expire at this Annual Meeting. Dr. Mandell has informed us that he will not stand for re-election to the Board of Directors, which is not a result of any disagreement between Dr. Mandell and the Company on any matters relating to our operations, policies or practices. Each of Wendy L. Dixon and David P. Schenkein has been nominated for and has agreed to stand for re-election to the Board of Directors to serve as a Class III director of the Company until the 2022 Annual Meeting and until his or her successor is duly elected.

Our By-laws provide for a majority voting standard for the election of directors in uncontested elections, which provides that to be elected, a director nominee must receive a greater number of votes FOR his or her election than votes AGAINST such election. The number of votes cast with respect to that director's election excludes abstentions and broker non-votes with respect to that director's election. In contested elections where the number of director nominees exceeds the number of directors to be elected, the voting standard will be a plurality of the shares present in person or by proxy and entitled to vote. If a director nominee who already serves as a director is not elected and no successor is elected, the resignation policy in our Corporate Governance Guidelines provides that such director will offer to tender his or her resignation to the Board of Directors. Our Nominating and Corporate Governance Committee will make a recommendation to the Board of Directors on whether to accept or reject the resignation, or whether to take some other action. The Board of Directors will act on the Nominating and Corporate Governance Committee's recommendation and publicly disclose its decision within 90 days from the date of the certification of the election results.

It is intended that, unless you give contrary instructions, shares represented by proxies solicited by the Board of Directors will be voted for the election of the two director nominees listed below. We have no reason to believe that any director nominee will be unavailable for election at the Annual Meeting. In the event that one or more director nominees is unexpectedly not available to serve, proxies may be voted for another person nominated as a substitute by the Board of Directors, or the Board of Directors may reduce the number of directors to be elected at the Annual Meeting. Information relating to each director nominee and for each continuing director, including his or her period of service as a director of bluebird, principal occupation and other biographical material is shown below. Pursuant to the By-laws, the Board of Directors has fixed the number of directors at nine as of the date of this year's Annual Meeting of Stockholders. Due to Mary Lynne Hedley's resignation from the Board of Directors effective February 26, 2019, we currently have a vacancy on the Board of Directors, and because Dr. Mandell will not stand for re-election to the Board of Directors, we expect to have two vacancies on the Board of Directors following the Annual Meeting. 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 the stockholders. Your proxy cannot be voted for a greater number of persons than the number of director nominees named in this proxy statement.

THE BOARD OF DIRECTORS UNANIMOUSLY RECOMMENDS THAT YOU VOTE

FOR

EACH OF THESE DIRECTOR NOMINEES FOR CLASS III DIRECTOR:

WENDY L. DIXON

DAVID P. SCHENKEIN

(PROPOSAL 1 ON YOUR PROXY CARD)

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DIRECTOR BIOGRAPHIES

The following table sets forth information concerning our directors as of April 15, 2019. The biographical description of each director includes the specific experience, qualifications, attributes and skills that the Board of Directors would expect to consider if it were making a conclusion currently as to whether such person should serve as a director.

CLASS III DIRECTOR NOMINEES	AGE	DIRECTOR SINCE
<p>Wendy L. Dixon, Ph.D. – Dr. Dixon is a Class III director who has served as a member of our Board of Directors since April 2013. In 2012, Dr. Dixon served as Senior Advisor at The Monitor Group. Dr. Dixon serves as a member of the board of directors for a number of biopharmaceutical companies, including Alkermes PLC (NASDAQ: ALKS), Incyte Corporation (NASDAQ: INCY), Sesen Bio, Inc. (formerly known as Eleven Biotherapeutics, Inc.) (NASDAQ: SESN) and Voyager Therapeutics, Inc. (NASDAQ: VYGR), and formerly for Orexigen Therapeutics Inc. (NASDAQ: OREX), Furiex Pharmaceuticals, Inc. (NASDAQ: FURX), which was sold to Forest Laboratories, LLC as a subsidiary of Allergan in 2014, Ardea Biosciences, Inc. (NASDAQ: RDEA), which was sold to AstraZeneca PLC in 2012, and Dentsply International Inc. (NASDAQ: XRAY), as well as a private company, Edimer Pharmaceuticals, Inc. Dr. Dixon also served as Chief Marketing Officer and President of Global Marketing for Bristol-Myers Squibb and as a member of the CEO’s Executive Committee from 2001 to 2009. She has had an over 30-year career in the pharmaceutical and biotechnology business, combining a technical background and experience in drug development and regulatory affairs with commercial responsibilities in building and leading organizations and launching and growing more than 20 pharmaceutical products including Tagamet, Fosamax, Singulair, Plavix, Abilify, Reyataz and Baraclude. From 1996 to 2001, she was Senior Vice President, Marketing at Merck and prior to that she held executive management positions at West Pharmaceuticals, Osteotech and Centocor, and various positions at SmithKline and French (now GlaxoSmithKline) in marketing, regulatory affairs, project management and as a biochemist. Dr. Dixon received her B.Sc., M.Sc. and Ph.D. from the University of Cambridge (UK). We believe that, among other experience, qualifications, attributes and skills, Dr. Dixon’s technical background in drug development, commercialization, marketing and regulatory affairs qualify her to serve as a member of our Board of Directors.</p>	63	April 2013
<p>David P. Schenkein, M.D. – Dr. Schenkein is a Class III director who has served as a member of our Board of Directors since April 2013. Since February 2019, Dr. Schenkein has served as a general partner for life sciences at Google Ventures. From August 2009 to January 2019, Dr. Schenkein served as the Chief Executive Officer and a member of the board of directors of Agios Pharmaceuticals, Inc. (NASDAQ: AGIO), when he assumed the role of Executive Chairman of the Board. From April 2006 to July 2009, Dr. Schenkein served as Senior Vice President of oncology development of Genentech. Dr. Schenkein serves as a member of the Board of Directors of Denali Therapeutics (NASDAQ: DNLI) and served on the Board of Directors of Foundation Medicine, Inc. (NASDAQ: FMI) from April 2010 to April 2017. Dr. Schenkein received his B.A. in chemistry from Wesleyan University and his M.D. from Upstate Medical School. We believe that Dr. Schenkein’s experience as Chief Executive Officer of Agios</p>	61	April 2013

Pharmaceuticals and as a member of the Board of Directors of a number of biopharmaceutical companies qualify him to serve as a member of our Board of Directors.

CURRENT DIRECTORS NOT STANDING FOR

ELECTION AT THE ANNUAL MEETING

AGE DIRECTOR SINCE

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CURRENT DIRECTORS NOT STANDING FOR

ELECTION AT THE ANNUAL MEETING

John O. Agwunobi, M.D. – Dr. Agwunobi is a Class II director who has served as a member of our Board of Directors since June 2017. Since February 2016, Dr. Agwunobi has served as Chief Health and Nutrition Officer at Herbalife Nutrition Institute (NASDAQ: HLF), responsible for training, education, science strategy and product development. He has also served as Co-President of Herbalife since May 2018. Prior to joining Herbalife, Dr. Agwunobi was an independent consultant, advising a number of privately-held health-related companies, including serving as an advisory board member of Shopko Stores Operating Co., LLC on behalf of the private equity firm Sun Capital Partners. From September 2007 to April 2014, Dr. Agwunobi served as Senior Vice President and President of Health and Wellness for Wal-Mart (NYSE: WMT) in the United States where he grew the business and provided insight and advice on the company's health reform position. From December 2005 to September 2007, he served as the Assistant Secretary of Health for the U.S. Department of Health and Human Services, where he was responsible for disease prevention and health promotion. His responsibilities included the oversight of the Centers for Disease Control, National Institute of Health, the U.S. Food and Drug Administration, the office of the U.S. Surgeon General, and numerous other public health offices and programs. Dr. Agwunobi has served on numerous boards, including currently as a director at Magellan Health Inc. (NASDAQ: MGLN) and at the U.S. African Development Foundation. Dr. Agwunobi is a licensed physician in Florida, Maryland and Washington, D.C. He received his medical training at the University of Jos and completed his pediatric residency at Howard

AGE 54
DIRECTOR SINCE June 2017

University. He also holds a Master's Degree in Public Health from Johns Hopkins University and Master's in Business Administration from Georgetown University. We believe that Dr. Agwunobi's experience as a senior executive and Board member of public companies in the health and wellness field, in addition to his prior service and experience with the US government, qualify him to serve as a member of our Board of Directors.

Nick Leschly – Mr. Leschly is a Class I director who has served as our President and Chief Executive Officer since September 2010. Previously, he served as our Interim Chief Executive Officer from March 2010 to September 2010. Formerly a partner of Third Rock Ventures, L.P. since its founding in 2007, Mr. Leschly played an integral role in the overall formation, development and business strategy of several of Third Rock's portfolio companies, including Agios Pharmaceuticals, Inc. and Edimer Pharmaceuticals, Inc. Prior to joining Third Rock, he worked at Millennium Pharmaceuticals, Inc. (now a subsidiary of Takeda), leading several early-stage drug development programs and served as the product and alliance leader for VELCADE. Mr. Leschly also founded and served as Chief Executive Officer of MedXtend Corporation. Mr. Leschly currently serves on the Board of Directors of Synlogic, Inc. (NASDAQ: SYBX) and formerly served on the Board of Directors of Proclara Biosciences, Inc. He received his B.S. in molecular biology from Princeton University and his M.B.A. from Wharton Business School. We believe that Mr. Leschly's operating and historical experience with our Company gained from serving as our President, Chief Executive Officer and member of the Board of Directors, combined with his experience in the venture capital industry and drug research and development qualify him to serve as a member of our Board of Directors.

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March 2010

Daniel S. Lynch – Mr. Lynch is a Class II director who has served as Chairman of our Board of Directors since May 2011. Since October 2007, Mr. Lynch has advised and served as Executive Chair or member of the Board of Directors for a number of private biopharmaceutical companies, which include Stromedix, Inc. (until its acquisition by Biogen Idec in February 2012), Avila Therapeutics, Inc. (until its acquisition by Celgene Corporation in February 2012), Edimer Pharmaceuticals, and Ember Therapeutics, Inc., Nimbus Therapeutics (formerly known as Nimbus Discovery, LLC), and Proclara Biosciences, Inc. He currently serves as Executive Chair or member of the Board of Directors of Blueprint Medicines Corporation (NASDAQ: BPMC), Sesen Bio, Inc. (formerly known as Eleven Biotherapeutics, Inc.) (NASDAQ: SESN), Surface Oncology, Inc. (NASDAQ: SURF), Translate Bio, Inc. (NASDAQ: TBIO), private company SpringWorks Therapeutics, and formerly for BIND Biosciences, Inc. (NASDAQ: BIND). Mr. Lynch joined Third Rock Ventures, L.P., or Third Rock, as an entrepreneur-in-residence in May 2011, and became a Venture Partner in May 2013, and now he is a Senior Advisor. Previously, Mr. Lynch served as Chief Executive and Chief Financial Officer of ImClone Systems Corporation, or ImClone. As ImClone’s Chief Executive Officer, he led ImClone through a significant turnaround, helping to restore the company’s reputation and to secure FDA approval of ERBITUX (Cetuximab), a novel cancer treatment. As its Chief Financial Officer, Mr. Lynch led negotiations to form the major partnership between ImClone and Bristol-Myers Squibb. Earlier in his career, he served in various financial positions at Bristol-Myers Squibb over a 15-year tenure. He served on the Board of Directors and the Audit Committee of U.S. Oncology, Inc. for five years until December 2010, when it was acquired by McKesson. Mr. Lynch received his B.A. in mathematics from Wesleyan University and his M.B.A. from the Darden Graduate School of Business Administration at the University of Virginia. We believe that Mr. Lynch’s experience as Chief Executive Officer and Chief Financial Officer of a public pharmaceutical company and as Executive Chairman and Director for many other life science companies, qualify him to serve as a member of our Board of Directors.

61 May 2011

Douglas A. Melton, Ph.D. – Dr. Melton is a Class I director who has served as a member of our Board of Directors since June 2017. Dr. Melton is the Xander University Professor at Harvard University, where he has been a professor for over thirty years. He has served as the Co-Director of the Harvard Stem Cell Institute since 2004, and also as the Co-Chair of the Department of Stem Cell and Regenerative Biology since 2007. Since 1994, Dr. Melton has been an Investigator of the Howard Hughes Medical Institute. He is a scientific co-founder of Gilead Sciences, Inc., Curis, Inc. and Semma Therapeutics, Inc. Dr. Melton received a B.S. in Biology from the University of Illinois, a B.A. in History and Philosophy of Science at Cambridge University, and received his Ph.D. in molecular biology at Trinity College at Cambridge and the MRC Laboratory of Molecular Biology. We believe that Dr. Melton’s extensive experience in stem cell research and early development and his experience as the founder of a number of biotechnology companies qualifies him to serve as a member of our Board of Directors.

65 June 2017

CURRENT DIRECTORS NOT STANDING FOR

ELECTION AT THE ANNUAL MEETING

AGE DIRECTOR SINCE

Mark Vachon – Mr. Vachon is a Class I director who has served as a member of our Board of Directors since July 2014. Mr. Vachon served as an Executive Vice President Sales, Integration and Operations at Change Healthcare Holdings, Inc. from November 2016 to April 2018. For over 30 years, Mr. Vachon held a variety of leadership positions across the General Electric organization, and was a company officer beginning in 1999 and a member of GE’s Corporate Executive Council. Mr. Vachon was President and CEO of GE Healthcare Americas from 2009 and 2010, and prior to that he was President and CEO of Global Diagnostics Imaging, GE Healthcare, between 2006 and 2009. Between 2003 and 2006, Mr. Vachon was Executive Vice President and CFO of GE Healthcare. Mr. Vachon serves on the board of trustees of Northeastern University and the Board of Directors of Numotion, and the Charitable Health and Retirement Trust. Mr. Vachon holds a B.S. in Finance from Northeastern University and an M.A. from Boston College. We believe that Mr. Vachon’s experience in financial and executive operating roles and in the healthcare field on a global basis qualify him to serve as a member of our Board of Directors.