Ultragenyx Pharmaceutical Inc. Form DEF 14A April 22, 2019 Table of Contents

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

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

ULTRAGENYX PHARMACEUTICAL INC.

(Name of Registrant as Specified In Its Charter)

N/A

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

Payment of Filing Fee (Check the appropriate box):

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

(4) Date Filed:

60 Leveroni Court

Novato, California 94949

NOTICE OF ANNUAL MEETING OF STOCKHOLDERS

To Be Held on June 11, 2019

at 2:00 p.m. Pacific time

Dear Stockholder:

You are cordially invited to attend the Annual Meeting of Stockholders of Ultragenyx Pharmaceutical Inc., a Delaware corporation (the *Company*), which will be held on June 11, 2019, at 2:00 p.m. Pacific Time virtually via the Internet at *www.virtualshareholdermeeting.com/RARE19* (the *Annual Meeting*). Instructions on how to participate in the Annual Meeting and demonstrate proof of stock ownership are posted at *www.virtualshareholdermeeting.com/RARE19*. The webcast of the Annual Meeting will be archived for one year after the date of the Annual Meeting at *www.virtualshareholdermeeting.com/RARE19*. Only stockholders who held stock at the close of business on the record date, April 15, 2019, may vote at the Annual Meeting, including any adjournment or postponement thereof.

At the Annual Meeting, you will be asked to consider and vote upon: (1) the election of the three directors named in the Proxy Statement as Class III directors; (2) the ratification of the selection of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2019; (3) an advisory (non-binding) resolution to approve the compensation of our named executive officers; and (4) any other business that may properly come before the Annual Meeting or any adjournment or postponement thereof. No other items of business are expected to be considered, and no other director nominees will be entertained, at the Annual Meeting.

The accompanying Proxy Statement more fully describes the details of the business to be conducted at the Annual Meeting. Proposal No. 1 relates solely to the election of the three directors nominated by the Board of Directors. After careful consideration, our Board of Directors has unanimously approved the proposals and recommends that you vote FOR each of the three director nominees and FOR each proposal described in the Proxy Statement. In accordance with Delaware law, a list of stockholders entitled to vote at the Annual Meeting will be available in electronic form during the Annual Meeting at the following URL: www.virtualshareholdermeeting.com/RARE19 and will be accessible during normal business hours for ten days prior to the meeting at our principal place of business, 60 Leveroni Court, Novato, California 94949.

We are pleased to make use of the Securities and Exchange Commission rules that allow companies to furnish proxy materials to their stockholders via the Internet. We believe the ability to deliver proxy materials electronically allows us to provide our stockholders with the information they need, while lowering the costs of delivery and reducing the environmental impact from the distribution of our Annual Meeting materials.

We look forward to speaking with you at the Annual Meeting.

Sincerely,

Emil D. Kakkis, M.D., Ph.D.

President and Chief Executive Officer

April 22, 2019

WHETHER OR NOT YOU EXPECT TO ATTEND THE ANNUAL MEETING, PLEASE VOTE VIA THE INTERNET OR OVER THE TELEPHONE AS INSTRUCTED IN THE PROXY CARD OR, IF YOU REQUESTED AND RECEIVED A PRINTED COPY OF THE PROXY STATEMENT, COMPLETE, DATE, SIGN, AND RETURN THE ENCLOSED PROXY CARD USING THE ENCLOSED RETURN ENVELOPE, AS PROMPTLY AS POSSIBLE SO THAT YOUR SHARES MAY BE REPRESENTED AT THE ANNUAL MEETING. YOU MAY ALSO VOTE THROUGH OUR VIRTUAL WEB CONFERENCE IF YOU ATTEND THE ANNUAL MEETING.

IMPORTANT NOTICE REGARDING THE AVAILABILITY OF PROXY MATERIALS FOR THE ANNUAL MEETING OF STOCKHOLDERS TO BE HELD ON JUNE 11, 2019:

The Proxy Statement and Annual Report on Form 10-K for the year ended December 31, 2018 are available at www.proxyvote.com.

TABLE OF CONTENTS

GENERAL INFORMATION	1
Shares Outstanding and Voting Rights	1
Virtual Meeting	3
PROPOSAL NO. 1 ELECTION OF CLASS III DIRECTORS	4
Nomination of Directors	4
Nominees and Incumbent Directors	5
Class III Directors Nominated for Election	5
Class I Directors Continuing in Office Until 2020	7
Class II Directors Continuing in Office Until 2021	8
Vote Required	9
Director Resignation Policy	9
PROPOSAL NO. 2 RATIFICATION OF THE SELECTION OF INDEPENDENT REGISTERED PUBLIC	
ACCOUNTING FIRM	10
Fees for Independent Registered Public Accounting Firm	11
Vote Required	11
REPORT OF THE AUDIT COMMITTEE	12
PROPOSAL NO. 3 ADVISORY (NON-BINDING) VOTE TO APPROVE THE COMPENSATION OF OUR	
NAMED EXECUTIVE OFFICERS	13
Background Packground	13
Vote Required	13
CORPORATE GOVERNANCE	14
<u>Director Independence</u>	14
Global Code of Conduct	14
Stockholder Communications	14
BOARD OF DIRECTORS AND COMMITTEES	14
Board Leadership Structure and Risk Oversight	15
Board Committees	15
Compensation Committee Interlocks and Insider Participation	17
EXECUTIVE OFFICERS	18
CERTAIN RELATIONSHIPS AND RELATED-PERSON TRANSACTIONS	19
Related-Person Transactions	19
Procedures for Related-Person Transactions	19
SECTION 16(A) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE	20
SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT	21
EXECUTIVE COMPENSATION	25
Compensation Discussion and Analysis	25
Compensation Philosophy and Objectives	25
Stockholder Outreach and Most Recent Say-On-Pay Vote	26
Roles in Determining Compensation	27
Defining and Comparing Compensation to Market Benchmarks	28
Annual Performance Reviews	28
<u>Base Salary</u>	29
<u>Annual Bonus</u>	30

Table of Contents	
Equity Compensation	34
Changes for Fiscal 2019	36
Employee Benefit Program	37
Tax and Accounting Considerations	38
Allocation of Compensation	38
<u>Timing of Compensation Actions</u>	38
<u>Clawback Policy</u>	38
Minimum Stock Ownership Requirements	38
Risk Management and Mitigation	39
Compensation Committee Report	39
Summary Compensation Table	40
Narrative Disclosure to Summary Compensation Table	41
Grants of Plan-Based Awards	46
Outstanding Equity Awards at December 31, 2018	47
Option Exercises and Stock Vested	48
Pension Benefits	48
Nonqualified Deferred Compensation	48
Potential Payments Upon Termination or Change of Control	49
EQUITY COMPENSATION PLAN INFORMATION	51
<u>DIRECTOR COMPENSATION</u>	51
CEO PAY RATIO	53
<u>OTHER BUSINESS</u>	53
STOCKHOLDER PROPOSALS	53
DELIVERY OF PROXY MATERIALS	54

60 Leveroni Court

Novato, California 94949

PROXY STATEMENT FOR

2019 ANNUAL MEETING OF STOCKHOLDERS

TO BE HELD ON JUNE 11, 2019

at 2:00 p.m. Pacific time

GENERAL INFORMATION

This Proxy Statement is furnished in connection with the solicitation of proxies by the Board of Directors (the *Board*) of Ultragenyx Pharmaceutical Inc. (*Ultragenyx* or the *Company*) for use at the Company s 2019 Annual Meeting of Stockholders, to be held virtually via the Internet at *www.virtualshareholdermeeting.com/RARE19* on June 11, 2019, at 2:00 p.m. Pacific Time (the *Annual Meeting*). The Notice Regarding the Availability of Proxy Materials (the *Notice*) containing instructions on how to access this Proxy Statement and our Annual Report on Form 10-K for the fiscal year ended December 31, 2018 (the *Annual Report*) is first being mailed on or about April 22, 2019 to all stockholders entitled to vote at the Annual Meeting. Pursuant to the rules promulgated by the Securities and Exchange Commission (the *SEC*), we have elected to provide access to our proxy materials primarily by notifying you of the availability of our proxy materials on the Internet, instead of mailing printed copies of those materials to stockholders. The Proxy Statement and Annual Report are available at *www.ultragenyx.com* in the SEC Filings subsection of the Investors tab.

The Notice instructs you as to how you may access and review important information contained in the proxy materials. The Notice also instructs you on how you may submit your proxy via the Internet. If you receive a Notice by mail and would like to receive a printed copy of our proxy materials, you should follow the instructions for requesting such materials included in the Notice.

For a proxy to be effective, it must be properly executed and received prior to the Annual Meeting. Each proxy properly tendered will, unless otherwise directed by the stockholder, be voted for each of the proposals set forth in this Proxy Statement and each of the three director nominees named in this Proxy Statement and at the discretion of the proxy holder(s) with regard to all other matters that may properly come before the Annual Meeting.

We will pay all of the costs of soliciting proxies. We will provide copies of our proxy materials to brokerage firms, fiduciaries, and custodians for forwarding to beneficial owners who request printed copies of these materials and will reimburse these persons for their costs of forwarding these materials. Our directors, officers, and employees may also solicit proxies by telephone, facsimile, or personal solicitation; however, we will not pay these individuals additional compensation for any of these services.

Shares Outstanding and Voting Rights

Only holders of record of our common stock at the close of business on April 15, 2019 (the *Record Date*), are entitled to notice of and to vote at the Annual Meeting. On the Record Date, 57,339,027 shares

1

of common stock were issued and outstanding. Each share of common stock is entitled to one vote on all matters to be voted upon at the Annual Meeting. Holders of common stock do not have the right to cumulate votes in the election of directors. The presence, in person or by proxy, of the holders of a majority of the outstanding shares on the Record Date will constitute a quorum for the transaction of business at the Annual Meeting and any postponement or adjournment thereof, though the Board may fix a new record date for purposes of a postponed or adjourned meeting.

Persons who hold shares of Ultragenyx common stock directly on the Record Date and not through a brokerage firm, bank or other financial institution (*registered holders*) may vote before the Annual Meeting (i) over the telephone (by calling 1-800-690-6903 until 11:59 p.m. Eastern Time the day before the Annual Meeting), (ii) through the Internet (by going to *www.proxyvote.com* until 11:59 p.m. Eastern Time the day before the Annual Meeting), or (ii) by returning an executed proxy card (that we must receive before the Annual Meeting). Registered holders who attend the Annual Meeting may also vote during the Annual Meeting by going to *www.virtualshareholdermeeting.com/RARE19* and following the instructions regarding voting.

Persons who hold shares of Ultragenyx common stock indirectly on the Record Date through a brokerage firm, bank or other financial institution (beneficial holders) may vote before the Annual Meeting (i) in accordance with the voting instructions provided by the institution that holds their shares, which may provide for voting over the telephone or through the Internet, or (ii) by returning a voting instruction form provided to them by the institution that holds their shares, in order to have their shares voted on their behalf. Beneficial holders who attend the Annual Meeting may also vote during the Annual Meeting by going to www.virtualshareholdermeeting.com/RARE19 and following the instructions regarding voting. Brokerage firms, banks or other financial institutions that do not receive voting instructions from beneficial holders may vote these shares on behalf of the beneficial holders only with respect to routine matters, or else return a proxy leaving these shares un-voted (a broker non-vote). The ratification of the selection of the independent registered public accounting firm (Proposal No. 2) is the only item on the agenda for the Annual Meeting that is considered routine. Abstentions and broker non-votes will be counted for the purpose of determining the presence or absence of a quorum. The required vote for each of the proposals expected to be acted upon at the Annual Meeting and the treatment of abstentions and broker non-votes under each proposal are described below:

Proposal No. 1 Election of Class III directors. Directors are elected by a plurality of the votes cast, with the three nominees obtaining the greatest number of affirmative votes being elected as directors. Broker non-votes and shares as to which a stockholder withholds voting authority are not considered votes cast and therefore will have no effect on the vote outcome. As further described in Proposal No. 1 below, any nominee for director who receives a greater number of withhold votes for his or her election than votes for his or her election will promptly tender his or her resignation to the Board following certification of the election results.

Proposal No. 2 Ratification of selection of independent registered public accounting firm. This proposal must be approved by a majority of the votes cast on the proposal (meaning the number of shares voted for this proposal must exceed the number of shares voted against such proposal). As a result, abstentions and broker non-votes will have no effect on the vote outcome.

Proposal No. 3 Advisory (non-binding) vote to approve the compensation of our named executive officers. This advisory proposal must be approved by a majority of the votes cast on the proposal (meaning the number of shares voted for this proposal must exceed the number of shares voted against such proposal). As a result, abstentions and broker non-votes will have no effect on the vote outcome.

We encourage you to vote by proxy, whether via telephone, through the Internet or by mailing an executed proxy card or voting instruction form, as discussed above. Voting in advance of the Annual Meeting reduces the likelihood that

we will be forced to incur additional expenses soliciting proxies for the Annual Meeting.

2

Any registered holder of our common stock may change or revoke a delivered proxy by:

executing and returning a new, later-dated proxy card by mail, or submitting a new vote via telephone or through the Internet, as instructed above in advance of the applicable deadline;

delivering a written revocation to the corporate Secretary before the Annual Meeting; or

voting at the Annual Meeting.

Beneficial holders of our common stock who wish to change or revoke their voting instructions should contact their brokerage firm, bank or other financial institution for information on how to do so.

Virtual Meeting

We conduct the Annual Meeting virtually via the Internet to facilitate stockholder attendance and participation and have done so every year since our initial public offering. Taking advantage of this virtual approach reduces our expenses and eliminates the time we would otherwise spend managing the various aspects of holding a physical meeting. The virtual format for the Annual Meeting enhances stockholder access by allowing our stockholders to participate fully, and equally, from any location around the world at no cost. We believe the virtual format is the right choice for us, not only because it brings cost savings to us and our stockholders, but because it increases our ability to engage with all stockholders, regardless of size, resources, or physical location. We are aware of concerns that virtual meetings may diminish stockholder voice or reduce accountability and are taking steps to address these concerns. For example, our virtual meeting format enhances, rather than constrains, stockholder access, participation, and communication because the online format allows stockholders to communicate with us during the Annual Meeting so they can ask questions of our Board, management, and a representative from our independent registered public accounting firm. During the live Q&A session, we will answer questions as they come in, as time permits. We are committed to publishing and answering each question received following the Annual Meeting. Although the live webcast is available only to stockholders at the time of the Annual Meeting, the webcast of the Annual Meeting will be archived for one year after the date of the Annual Meeting at www.virtualshareholdermeeting.com/RARE19.

Our annual meetings are only one aspect of our stockholder outreach program, which is a year-long effort by our management to engage with our stockholders in a continuous and meaningful way. Our stockholders can raise questions or concerns regarding the Company at any time by calling our Investor Relations department at (844) 758-7273 or contacting our Board by following the process described under Corporate Governance Stockholder Communications.

3

PROPOSAL NO. 1 ELECTION OF CLASS III DIRECTORS

Our Amended and Restated Certificate of Incorporation provides that the Board is to be divided into three classes as nearly equal in number as reasonably possible, with directors in each class generally serving three-year terms. The total Board size is currently fixed at nine directors. The Class III directors (whose terms expire at the Annual Meeting) are William Aliski, Lars Ekman, M.D., Ph.D., and Matthew K. Fust. The Class I directors (whose terms expire at the 2020 annual meeting of stockholders) are Emil D. Kakkis, M.D., Ph.D., Shehnaaz Suliman, M.D., and Daniel G. Welch. The Class II directors (whose terms expire at the 2021 annual meeting of stockholders) are Deborah Dunsire, M.D., Michael Narachi, and Clay B. Siegall, Ph.D. The Class III directors elected at the Annual Meeting will hold office until the 2022 annual meeting of stockholders and until their successors are elected and qualified, unless they resign or their seats become vacant due to death, removal, or other cause in accordance with our Amended and Restated Bylaws (the *bylaws*).

As described below, the Board has nominated Dr. Ekman and Messrs. Aliski and Fust for election as Class III directors at the Annual Meeting. Dr. Ekman and Messrs. Aliski and Fust have indicated their willingness to serve if elected. Should Dr. Ekman, Mr. Aliski, or Mr. Fust become unavailable for election at the Annual Meeting, the persons named on the enclosed proxy as proxy holders may vote all proxies given in response to this solicitation for the election of a substitute nominee(s) chosen by the Board or the Board may reduce the size of the Board.

Nomination of Directors

The Nominating and Corporate Governance Committee reviews and recommends to the Board potential nominees for election to the Board. In reviewing potential nominees, the Nominating and Corporate Governance Committee considers the qualifications of each potential nominee in light of the Board's existing and desired mix of experience and expertise. Specifically, the Nominating and Corporate Governance Committee considers each potential nominees personal and professional ethics, integrity, values, experience, interest in the Company, and commitment to the representation of the long-term interests of the stockholders. The Nominating and Corporate Governance Committee also considers each potential nominees contribution to the Board's diversity of talents, skills, backgrounds, including with respect to age, gender, national origin, sexual orientation and identification, race, ethnicity and culture, and expertise. Additionally, the Nominating and Corporate Governance Committee considers whether a nominee will be able to dedicate sufficient time to, and focus on, his or her duties as a member of the Board. The Board membership criteria are set forth in our Corporate Governance Guidelines, a copy of which is available on our website at www.ultragenyx.com in the Corporate Governance subsection of the Investors tab.

After reviewing the qualifications of potential Board candidates, the Nominating and Corporate Governance Committee presents its recommendations to the Board, which selects the final director nominees. Upon the recommendation of the Nominating and Corporate Governance Committee, the Board nominated Dr. Ekman and Messrs. Aliski and Fust for election as Class III directors. We did not pay any fees to any third party to identify or assist in identifying or evaluating nominees for the Annual Meeting.

The Nominating and Corporate Governance Committee considers stockholder-recommended director nominees using the same criteria set forth above. Stockholders who wish to recommend a potential nominee to the Nominating and Corporate Governance Committee for consideration for election at a future annual meeting of stockholders must provide the Nominating and Corporate Governance Committee with the same information that would be required to nominate a director candidate in accordance with the process and within the time periods for nominating director candidates set forth on page 53 under the caption Stockholder Proposals.

Although, as noted above, the Nominating and Corporate Governance Committee considers whether nominees assist in achieving a mix of Board members that represents a diversity of talents, skills, backgrounds, and expertise, we have no formal policy regarding board diversity. The Nominating and Corporate Governance

4

Committee assesses the effectiveness of its Board membership criteria on an ongoing basis and as part of the director selection and nomination process.

Nominees and Incumbent Directors

The Nominating and Corporate Governance Committee has recommended, and the Board has nominated, Dr. Ekman and Messrs. Aliski and Fust to be elected as Class III directors at the Annual Meeting. The following table sets forth the following information for Dr. Ekman and Messrs. Aliski and Fust and our continuing directors: the year each was first elected a director of the Company; their respective ages as of the date of this Proxy Statement; the positions currently held with the Company; the year their current term will expire; and their current class.

				Year Current Term I	
Nominee/Director Name	Age	Position	Since	Expires	Class
Nominees for Class III Director					
William Aliski	71	Director	2011	2019	III
Lars Ekman, M.D., Ph.D.	69	Director	2016	2019	III
Matthew K. Fust	54	Director	2014	2019	III
Continuing Directors					
Emil D. Kakkis, M.D., Ph.D.	58	President and Chief Executive Officer	2010	2020	I
Shehnaaz Suliman, M.D.	47	Director	2019	2020	I
Daniel G. Welch	61	Chairman of the Board	2015	2020	I
Deborah Dunsire, M.D.	56	Director	2017	2021	II
Michael Narachi	59	Director	2015	2021	II
Clay B. Siegall, Ph.D.	58	Director	2014	2021	II

Class III Directors Nominated for Election

The following three people have been nominated by the Board to be elected as Class III directors at the Annual Meeting.

William Aliski has served as a member of our Board since January 2011. Mr. Aliski has served as a commercial consultant for early-stage orphan disease companies, including Audentes Therapeutics, Inc. from September 2018 to the present, Ra Pharmaceuticals, Inc. from October 2016 to March 2017, Clementia Pharmaceuticals, Inc. from December 2015 to January 2017 and May 2018 to the present, OxThera AB from January 2015 through April 2015, Prosensa Holding N.V. during 2014, Adimab LLC from November 2013 until December 2013, NPS Pharmaceuticals from April 2013 through December 2014, Fidelity Biosciences from August 2012 until December 2012, and Enobia Pharma Corp. from September 2011 until March 2012. Before that, Mr. Aliski served as Senior Vice President and Chief Commercial Officer of FoldRx Pharmaceuticals, Inc., a rare disease company that is now a wholly-owned subsidiary of Pfizer Inc., from June 2009 until March 2011, as Director of Simon Kucher Partners, a global consulting firm, from January 2008 until June 2009, and as General Manager of BioMarin Europe at BioMarin Pharmaceuticals Inc. from December 2005 until January 2008. Mr. Aliski currently serves on the board of directors of Applied Genetic Technologies Corporation, a public biotechnology company. Mr. Aliski received a B.S. in Economics and a Master of Social Planning from Boston College and an M.P.A. from the Kennedy School of Government at Harvard University. We believe that Mr. Aliski is qualified to serve on our Board due to his extensive experience in the life sciences industry, membership on various boards of directors, and his leadership and management experience.

Lars Ekman, M.D., Ph.D. has served as a member of our Board since March 2016. He has more than 30 years of experience in the pharmaceutical industry and is currently an executive partner at Sofinnova, a venture capital

5

firm, where Dr. Ekman has served as executive partner since March 2008. He currently serves as Chairman of the Board of Amarin Corporation plc, Chairman of the Board of Sophiris Bio, Inc., Chairman of the Board of Prothena Corporation plc, and also serves as a director of Spark Therapeutics, Inc., or Spark. Dr. Ekman previously served on the boards of directors of Elan Corporation plc from 2007 through 2013, InterMune Inc. from 2006 through 2013, and Ocera Therapeutics, Inc. from 2009 through 2015. From October 2008 to 2011, he served as Co-Founder and Chief Executive Officer of Cebix Inc., a C-peptide replacement therapy company. He was Executive Vice President and President of Global Research and Development at Elan Corporation plc, from January 2001 to December 2007. Prior to joining Elan, he was Executive Vice President, Research and Development at Schwarz Pharma AG from February 1997 to December 2000, and prior to that was employed in a variety of senior scientific and clinical functions at Pharmacia, now Pfizer Inc. Dr. Ekman is a board-certified surgeon with a Ph.D. in experimental biology and has held several clinical and academic positions in both the United States and Europe. He obtained his Ph.D. and M.D. from the University of Gothenburg, Sweden. We believe that Dr. Ekman is qualified to serve on our Board due to his extensive experience in the life sciences industry, and particularly his research and development expertise, as well as his membership on various boards of directors in the biotechnology industry.

Matthew K. Fust has served as a member of our Board since January 2014. He is a board member and advisor to life sciences companies. Mr. Fust retired as Executive Vice President of Onyx Pharmaceuticals, Inc., a biopharmaceutical company, where he served from January 2009 until January 2014. From May 2003 to December 2008, Mr. Fust served as Chief Financial Officer at Jazz Pharmaceuticals, Inc., a specialty pharmaceutical company. From 2002 to 2003, Mr. Fust served as Chief Financial Officer at Perlegen Sciences, Inc., a biopharmaceutical company. Previously, he was Senior Vice President and Chief Financial Officer at ALZA Corporation, a pharmaceutical company, where he was an executive from 1996 until 2002. From 1991 until 1996, Mr. Fust was a manager in the healthcare strategy practice at Andersen Consulting. Mr. Fust serves on the board of directors of Atara Biotherapeutics, Inc., Crinetics Pharmaceuticals, Inc., Dermira, Inc., and MacroGenics, Inc., which are publicly traded biopharmaceutical companies. He also served on the board of directors of Sunesis Pharmaceuticals, Inc. from May 2005 to May 2017. Mr. Fust received a B.A. in accounting from the University of Minnesota and an M.B.A. from the Stanford Graduate School of Business. We believe that Mr. Fust is qualified to serve on our Board due to his extensive experience in the life sciences industry, his financial experience and ability to be our audit committee financial expert, and his service as a director of other public biopharmaceutical companies.

Additional Statement In Support of the Nominations of Dr. Ekman and Mr. Fust

In considering the nominations of Dr. Ekman and Mr. Fust, the Nominating and Corporate Governance Committee and the Board acknowledged each of their service on five public company boards of directors, inclusive of service on our Board, and considered whether such service would allow them to dedicate sufficient time to, and focus on, their duties as a director of the Company. In making the nominations, the Nominating and Corporate Governance Committee and the Board recognized the extensive value, skills, and experience that Dr. Ekman and Mr. Fust add to our Board and the superior level of engagement they have demonstrated during their tenure as members of our Board. For example, during 2018, each of Dr. Ekman and Mr. Fust attended 100% of the aggregate of the meetings of the Board and the committees on which he is a member—a total of 7 meetings for Dr. Ekman and 17 meetings for Mr. Fust and was an important contributor during each meeting. Additionally, it is important to note that, as stated in a Form 8-K filed by Spark on February 25, 2019, Spark entered into an Agreement and Plan of Merger pursuant to which Spark will become a wholly-owned subsidiary of Roche. If that merger is consummated, then Dr. Ekman will only serve on four public company boards of directors. Accordingly, the Nominating and Corporate Governance Committee and the Board concluded that Dr. Ekman and Mr. Fust should continue to serve as a director based on their business experience, demonstrated reliability, and commitment to service on our Board.

Class I Directors Continuing in Office Until 2020

Emil D. Kakkis, M.D., Ph.D. is our founder and has served as our President and Chief Executive Officer and as a member of our Board since its inception in April 2010. Prior to Ultragenyx, Dr. Kakkis served from September 1998 to February 2009 in various executive capacities, and ultimately as Chief Medical Officer, at BioMarin Pharmaceutical Inc., a biopharmaceutical company. Dr. Kakkis then served as a development consultant to BioMarin from 2009 through 2010. Dr. Kakkis is also Founder of EveryLife Foundation for Rare Diseases, a non-profit organization he started in 2009 to accelerate biotechnology innovation for rare diseases. Dr. Kakkis is board certified in Medical Genetics and was board certified in Pediatrics. He holds a B.A. in Biology from Pomona College and received combined M.D. and Ph.D. degrees from the UCLA School of Medicine s Medical Scientist Training Program where he received the Bogen prize for his research. We believe that Dr. Kakkis possesses specific expert knowledge of genetics and rare diseases and operational experience in the life sciences sector that qualify him to serve on our Board.

Shehnaaz Suliman, M.D., M.Phil., M.B.A. has served as a member of our Board since January 2019. Dr. Suliman served as Senior Vice President, Corporate Development and Strategy of Theravance Biopharma, Inc., a biopharmaceutical company, from July 2017 to March 2019. Prior to her position at Theravance, Dr. Suliman worked for Genentech, Inc., a biopharmaceutical company, as Group Leader and Project Team Leader in the R&D Portfolio Management and Operations Group from September 2010 to May 2015 and then as Vice President and Global Therapeutic Head, Roche Partnering from June 2015 to July 2017. Prior to Genentech, Dr. Suliman held various management roles of increasing responsibility at Gilead Sciences, Inc., a biopharmaceutical company, between January 2005 and September 2010. Prior to Gilead, Dr. Suliman was an investment banker with Lehman Brothers and Petkevich & Partners, advising public and private companies on buy- and sell-side transactions. She is a member of the board of directors of Parvus Therapeutics, Inc., a private biopharmaceutical company. Dr. Suliman received her M.D. at the University of Cape Town Medical School, South Africa, and holds an M.B.A, with distinction, and M.Phil. in Development Studies degrees from Oxford University, where she was a Rhodes Scholar. We believe that Dr. Suliman is qualified to serve on our Board due to her extensive operational experience with global biopharmaceutical companies, and particularly her expertise in business development, corporate strategy, and clinical drug development.

Daniel G. Welch has served as a member of our Board since April 2015 and as Chairman of the Board since June 2015. Mr. Welch is currently Executive Chairman at Levo Therapeutics, Inc., a private biotechnology company, and at InCarda Therapeutics, Inc., a private biopharmaceutical company. Between January 2015 and January 2018, he was an Executive Partner at Sofinnova Ventures, a venture capital firm. Prior to Sofinnova, Mr. Welch served as Chairman, Chief Executive Officer, and President of InterMune, Inc., a biotechnology company, from May 2008 to October 2014 and served as President and Chief Executive Officer of InterMune and a member of its board of directors from September 2003 to May 2008. From August 2002 to January 2003, Mr. Welch served as Chairman and Chief Executive Officer of Triangle Pharmaceuticals, Inc., a pharmaceutical company. From October 2000 to June 2002, Mr. Welch served as president of the pharmaceutical division of Elan Corporation, plc. Mr. Welch currently serves on the boards of directors of Seattle Genetics, Inc. and Intercept Pharmaceuticals, Inc., both of which are publicly traded biotechnology companies, Levo Therapeutics, Inc., a private biotechnology company, and InCarda Therapeutics, a private biopharmaceutical company. Mr. Welch previously served as chairman of the board of AveXis, Inc., a publicly traded biotechnology company, from January 2016 through its acquisition in May 2018, and on the boards of directors of Hyperion Therapeutics, Inc., a publicly traded biotechnology company, from 2012 through its acquisition in 2015, as well as Corium International, Inc., a publicly traded biopharmaceutical company, from 2007 through 2014. Mr. Welch holds a B.S. from the University of Miami and an M.B.A. from the University of North Carolina. We believe that Mr. Welch is a strong operating executive with operational and strategic expertise in the global pharmaceutical market, whose experience contributes valuable insight to the Board.

Class II Directors Continuing in Office Until 2021

Deborah Dunsire, M.D. has served as a member of our Board since April 2017. Dr. Dunsire currently serves as President and Chief Executive Officer of H. Lundbeck A/S, a pharmaceutical company. She previously served as President and Chief Executive Officer and as a director of Xtuit Pharmaceuticals, Inc., a private biopharmaceutical company, from January 2017 to March 2018. Prior to her position at Xtuit, she served as President and Chief Executive Officer and a director of FORUM Pharmaceuticals Inc., a private pharmaceutical company, from July 2013 to May 2016. Prior to FORUM, Dr. Dunsire worked for Takeda Pharmaceutical Company Limited, a publicly traded pharmaceutical company, as a corporate officer from June 2010 to June 2011 and a director from June 2011 to June 2013. She served as President and Chief Executive Officer and as a director of Millennium Pharmaceuticals, Inc., a publicly traded biopharmaceutical company, between 2005 and 2008, when it was acquired by Takeda, and then as President and Chief Executive Officer of Millenium: The Takeda Oncology Company after the acquisition between 2008 and 2013. Prior to Millenium, Dr. Dunsire held various roles of increasing responsibility at Novartis Pharma AG between 1988 and 2005. Dr. Dunsire previously served as a director of Allergan, Inc., a publicly traded pharmaceutical company, between December 2006 and April 2015. She currently serves as a member of the board of directors of Alexion Pharmaceuticals Inc. She obtained an MBBCh from the University of the Witwatersrand. We believe that Dr. Dunsire is qualified to serve on our Board due to her extensive experience in the biotechnology and pharmaceutical sectors, including service as the chief executive officer of various pharmaceutical companies, which gives her the skills to provide us with operational and strategic insights.

Michael Narachi has served as a member of our Board since February 2015. Mr. Narachi currently serves as President and Chief Executive Officer and a director of CODA Biotherapeutics, Inc., a private biotherapeutics company. Between March 2009 and July 2018, Mr. Narachi served as President and Chief Executive Officer and a director of Orexigen Therapeutics, Inc., a biotechnology company. Orexigen filed for reorganization under Chapter 11 of the U.S. Bankruptcy Code in March 2018. Previously, Mr. Narachi served as Chairman, Chief Executive Officer, and President of Ren Pharmaceuticals, Inc., a private biotechnology company, from November 2006 to March 2009. In 2004, Mr. Narachi retired as an officer and Vice President of Amgen Inc., a leading therapeutics company, where he served as General Manager of Amgen s Anemia Business from 1999 to 2003. Mr. Narachi joined Amgen in 1984 and held various senior positions throughout the organization over a 20-year career including: Vice President of Development and Representative Director for Amgen Japan; Head of Corporate Strategic Planning; Chief Operations Officer of Amgen BioPharma; and Vice President, Licensing and Business Development. He served as General Manager of Amgen s Anemia Business from 1999 to 2003 until his retirement in 2004. Mr. Narachi currently serves on the board of directors of BIO, the Biotechnology Innovation Organization, and previously served as a member of the board of directors of PhRMA, the Pharmaceutical Research and Manufacturers of America. He previously served as the chairman of the board of directors of Celladon Corporation, a publicly traded gene therapy company, from October 2013 to March 2016, and as a director of AMAG Pharmaceuticals, Inc., a publicly traded specialty pharmaceutical company, from November 2006 to April 2014. Mr. Narachi received a B.S. in Biology and an M.A. degree in Biology and Genetics from the University of California at Davis. He received an M.B.A. from the Anderson Graduate School of Management at University of California, Los Angeles. We believe that Mr. Narachi is qualified to serve on our Board due to his extensive experience in the life sciences industry, his service as the chief executive officer of various biotechnology companies, and his membership on various boards of directors in the biotechnology and pharmaceutical sectors, all of which give him the skills to provide us with operational and strategic insights.

Clay B. Siegall, Ph.D. has served as a member of our Board since January 2014. Dr. Siegall currently serves as President and Chief Executive Officer and Chairman of the Board of Seattle Genetics, Inc., a biotechnology company. Dr. Siegall co-founded Seattle Genetics in 1997. Prior to Seattle Genetics, Dr. Siegall worked for the Bristol-Myers Squibb Pharmaceutical Research Institute from 1991 to 1997 and the National Cancer Institute, National Institutes of Health from 1988 to 1991. In addition to Seattle Genetics, Dr. Siegall serves as a director of Alder

BioPharmaceuticals, Inc., a publicly traded biotechnology company. Dr. Siegall also served as a director of Mirna Therapeutics, Inc., a publicly traded biotechnology company, from January 2013 to

8

December 2016. Dr. Siegall received a B.S. in Zoology from the University of Maryland and a Ph.D. in Genetics from George Washington University. We believe that Dr. Siegall is qualified to serve on our Board due to his extensive experience in the life sciences industry and his role as Chief Executive Officer of a publicly traded biotechnology company, both of which give him the skills to provide strategic leadership to our Company.

Vote Required

The three nominees who receive the greatest number of affirmative votes will be elected as Class III directors. Broker non-votes and shares as to which a stockholder withholds voting authority are not considered votes cast and therefore will have no effect on the vote outcome.

Director Resignation Policy

We have a director resignation policy, which is set forth in our Corporate Governance Guidelines, a copy of which is available on our website at www.ultragenyx.com in the Corporate Governance subsection of the Investors tab. The policy establishes that any director nominee who receives more withhold votes than for votes in an uncontested election of directors is required to tender his or her resignation promptly following the certification of the election results. Abstentions and broker non-votes are not counted as either a withhold or for vote. The Nominating and Corporate Governance Committee will promptly consider the tendered resignation and make a recommendation to the Board. The Board will act on the recommendation of the Nominating and Corporate Governance Committee no later than 90 days following the certification of the election results. The Board will promptly publicly disclose its decision and, if applicable, the reasons for rejecting the tendered resignation.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE FOR EACH OF THE THREE DIRECTOR NOMINEES IDENTIFIED ABOVE.

9

PROPOSAL NO. 2 RATIFICATION OF THE SELECTION OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Our Audit Committee has selected Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2019, and has further directed that we submit the selection of Ernst & Young LLP for ratification by our stockholders at the Annual Meeting.

We are not required to submit the selection of our independent registered public accounting firm for stockholder approval, but are submitting our selection of Ernst & Young LLP for stockholder ratification as a matter of good corporate governance. If the stockholders do not ratify this selection, the Audit Committee will reconsider its selection of Ernst & Young LLP. Even if the selection is ratified, our Audit Committee may direct the appointment of a different independent registered public accounting firm at any time during the year if the Audit Committee determines that the change would be in our best interests.

The Audit Committee reviews and pre-approves all audit and non-audit services performed by its independent registered public accounting firm. The Audit Committee may delegate its pre-approval authority to one or more of its members and has delegated such authority to the Chairman of the committee; any pre-approval decisions made by the Chairman are reported by the Chairman to the Audit Committee at the next scheduled committee meeting. The Audit Committee may pre-approve specified audit-related services (assurance and related services that are reasonably related to the performance of the audit or review of our financial statements and that are traditionally performed by the independent auditor) as well as specified tax services that the Audit Committee believes would not impair the independence of the independent auditor, and that are consistent with rules on auditor independence established by the SEC and the Public Company Accounting Oversight Board (*PCAOB*). The Audit Committee may also pre-approve those permissible non-audit services classified as all other services that it believes are routine and recurring services and would not impair the independence of the independent auditor and are consistent with SEC and PCAOB rules on auditor independence. All requests or applications for services to be provided by the independent auditor will be submitted to the Chief Financial Officer and must include a detailed description of the services to be rendered. The Chief Financial Officer or the Principal Accounting Officer, as the case may be, will authorize those services that have been pre-approved by the Audit Committee. If there is any question as to whether a proposed service fits within the pre-approved categories of services, the Chairman of the Audit Committee is to be consulted for a determination. For services that have not been pre-approved by the Audit Committee, requests or applications to provide services will be submitted to the Audit Committee by both the independent auditor and the Chief Financial Officer, and must include a joint oral or written statement as to whether, in their view, the request or application is consistent with the SEC s and PCAOB s rules on auditor independence.

All services rendered by Ernst & Young LLP in fiscal 2018 were approved in accordance with these policies. In its review of non-audit services, the Audit Committee considers, among other things, the possible impact of the performance of such services on the independent registered public accounting firm s independence. The Audit Committee has determined that the non-audit services performed by Ernst & Young LLP in the fiscal year ended December 31, 2018 were compatible with maintaining the independent registered public accounting firm s independence. Additional information concerning the Audit Committee and its activities can be found in the following sections of this Proxy Statement: Board of Directors and Committees Board Committees and Report of the Audit Committee.

Ernst & Young LLP has audited our financial statements since our inception. Representatives of Ernst & Young LLP are expected to be present at the Annual Meeting, will have the opportunity to make a statement if they desire to do so, and will be available to respond to appropriate stockholder questions.

Fees for Independent Registered Public Accounting Firm

The following is a summary of the aggregate fees billed or expected to be billed to us for the audit and other services rendered by Ernst & Young LLP, our independent registered public accounting firm, for the fiscal years ended December 31, 2018 and 2017.

	2018	2017
Audit fees ⁽¹⁾	\$ 1,419,000	\$ 1,314,000
Audit-related fees		
Tax fees ⁽²⁾	198,000	156,000
All other fees ⁽³⁾	2,000	2,000
Total	\$ 1,619,000	\$1,472,000

- (1) Audit fees consist of the aggregate fees billed for professional services rendered for the audit of our annual financial statements included in our annual reports on Form 10-K; the review of our interim financial statements included in our quarterly reports on Form 10-Q; consultation on technical accounting matters; assistance with registration statements filed with the SEC; and the issuance of comfort letters and consents.
- (2) Tax fees principally include fees for tax compliance and tax advice.
- (3) All other fees consist of fees for accessing Ernst & Young LLP s online research database.

Vote Required

Ratification of the selection of the independent registered public accounting firm requires the affirmative vote of a majority of the votes cast. Because abstentions and broker non-votes are not counted as votes cast for or against this proposal, they will have no effect on the outcome of the vote.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE FOR PROPOSAL NO. 2.

11

REPORT OF THE AUDIT COMMITTEE

The Audit Committee evaluates auditor performance, manages relations with our independent registered public accounting firm, and evaluates policies and procedures relating to internal control systems. The Audit Committee operates under a written Audit Committee Charter that has been adopted by the Board, a copy of which is available on our website at www.ultragenyx.com. All members of the Audit Committee currently meet the independence and qualification standards for Audit Committee membership set forth in the listing standards and rules of Nasdaq and the SEC.

No member of the Audit Committee is a professional accountant or auditor. The members functions are not intended to duplicate or to certify the activities of management and the independent registered public accounting firm. The Audit Committee serves a board-level oversight role in which it provides advice, counsel, and direction to management and the auditors on the basis of the information it receives, discussions with management and the auditors, and the experience of the Audit Committee s members in business, financial, and accounting matters.

The Audit Committee oversees our financial reporting process on behalf of the Board. Our management has the primary responsibility for the financial statements and reporting process, including our system of internal controls over financial reporting. In fulfilling its oversight responsibilities, the Audit Committee reviewed and discussed with management the audited financial statements included in the Annual Report on Form 10-K for the fiscal year ended December 31, 2018. This review included a discussion of the quality and the acceptability of our financial reporting, including the nature and extent of disclosures in the financial statements and the accompanying notes.

The Audit Committee also reviewed with our independent registered public accounting firm, which is responsible for expressing an opinion on the conformity of the audited financial statements with accounting principles generally accepted in the United States of America, their judgments as to the quality and the acceptability of our financial reporting and such other matters as are required to be discussed with the Committee pursuant to applicable rules of the PCAOB. The Audit Committee has received the written disclosures and the letter from the independent registered public accounting firm required by the PCAOB regarding the independent accountant s communications with the Audit Committee concerning independence. The Audit Committee discussed with the independent registered public accounting firm their independence from us and management, including the matters required by the applicable rules of the PCAOB.

In addition to the matters specified above, the Audit Committee discussed with our independent registered public accounting firm the overall scope, plans, and estimated costs of their audit. The Audit Committee met with the independent registered public accounting firm periodically, with and without management present, to discuss the results of the independent registered public accounting firm s examinations, the overall quality of our financial reporting, and the independent registered public accounting firm s reviews of the quarterly financial statements and drafts of the quarterly and annual reports.

In reliance on the reviews and discussions referred to above, the Audit Committee recommended to the Board that our audited financial statements should be included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2018.

Submitted by the Audit Committee of the Board of Directors

Matthew Fust, Chairperson

William Aliski

Michael Narachi

12

PROPOSAL NO. 3 ADVISORY (NON-BINDING) VOTE TO APPROVE THE COMPENSATION OF OUR NAMED EXECUTIVE OFFICERS

Background

The Dodd-Frank Wall Street Reform and Consumer Protection Act (the *Dodd-Frank Act*) requires that stockholders have the opportunity to cast an advisory (non-binding) vote to approve the compensation of our named executive officers (a *say-on-pay vote*).

The say-on-pay vote is a non-binding vote on the compensation of our named executive officers, as described in the Compensation Discussion and Analysis section, the tabular disclosure regarding such compensation, and the accompanying narrative disclosure, set forth in this Proxy Statement. The say-on-pay vote is not a vote on our general compensation policies, compensation of our Board of Directors, our compensation policies as they relate to risk management, or our pay ratio.

Our philosophy in setting compensation policies for executive officers has two fundamental objectives: (1) to attract and retain a highly-skilled team of executives and (2) to align our executives—interests with those of our stockholders by rewarding short-term and long-term performance and tying compensation to increases in stockholder value. The Compensation Committee believes that executive compensation should be directly linked both to continuous improvements in corporate performance (so-called pay for performance) and accomplishments that are expected to increase stockholder value. The Compensation Discussion and Analysis section starting on page 25 provides a more detailed discussion of the executive compensation program and compensation philosophy.

The vote under this Proposal No. 3 is advisory and therefore not binding on us, the Board, or our Compensation Committee. However, our Board, including our Compensation Committee, values the opinions of our stockholders and, to the extent there is any significant vote against the named executive officer compensation program as disclosed in this Proxy Statement, we will consider our stockholders—concerns and evaluate what actions may be appropriate to address those concerns. The Dodd-Frank Act requires us to hold the say-on-pay vote at least once every three years, and we have determined to hold a say-on-pay vote every year. Unless the Board modifies its policy on the frequency of holding say-on-pay advisory votes, the next say-on-pay vote will occur in 2020.

Stockholders will be asked at the Annual Meeting to approve the following resolution pursuant to this Proposal No. 3:

RESOLVED, that the stockholders of Ultragenyx Pharmaceutical Inc. approve, on an advisory basis, the compensation of the Company s named executive officers (as defined in the Company s definitive proxy statement for the 2019 Annual Meeting of Stockholders (the Proxy Statement)), as such compensation is described in the Compensation Discussion and Analysis section, the tabular disclosure regarding such compensation, and the accompanying narrative disclosure, set forth in the Company s Proxy Statement.

Vote Required

Approval of this resolution requires the affirmative vote of a majority of the votes cast on this proposal. Because abstentions and broker non-votes are not counted as votes cast for or against this resolution, they will have no effect on the outcome of the vote.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE FOR PROPOSAL NO. 3.

CORPORATE GOVERNANCE

Director Independence

Our Board currently consists of nine members. Our Board has determined that Mr. Aliski, Dr. Dunsire, Dr. Ekman, Mr. Fust, Mr. Narachi, Dr. Siegall, Dr. Suliman, and Mr. Welch qualify as independent directors in accordance with Nasdaq listing requirements and rules. Dr. Kakkis is not considered independent because he is an employee of the Company. Under Nasdaq rules, the Board's determination of a director's independence considers objective tests, such as whether the director is, or has been within the last three years, an employee of the Company and whether the director or any of his or her family members has engaged in certain types of business dealings with us. Under Nasdaq rules, our Board also evaluates whether any relationships exist that, in the opinion of our Board, would interfere with the exercise of independent judgment in carrying out the responsibilities of a director. In making these independence determinations, our Board reviewed and discussed information provided by the directors and us with regard to each director's business and personal activities and relationships as they may relate to us and our management. There are no family relationships among any of our directors or executive officers.

Global Code of Conduct

We have adopted a Global Code of Conduct that applies to all of our employees, officers, and directors, including those officers responsible for financial reporting. Our Global Code of Conduct is available on our website, www.ultragenyx.com, under the Corporate Governance subsection of the Investors tab. We will promptly disclose on our website any future changes or amendments to the Global Code of Conduct that we are required to disclose, and any waivers of our Global Code of Conduct that apply to our Chairman of the Board, any of our executive officers, or any member of our Board.

Stockholder Communications

Generally, stockholders who have questions or concerns regarding the Company should contact our Investor Relations department at (844) 758-7273. However, any stockholders who wish to address questions regarding our business or affairs directly with the Board, or any individual director, should direct his or her questions in writing to the Chairman of the Board, c/o Ultragenyx Pharmaceutical Inc., 60 Leveroni Court, Novato, California 94949. At the request of the Chairman of the Board, the Secretary to the Board reviews all correspondence addressed to the Chairman, organizes the correspondence, and provides it to the Chairman or to individual directors, as appropriate. Our independent directors have requested that certain items that are unrelated to the Board s duties, such as spam, junk mail, mass mailings, solicitations, resumes, and job inquiries not be provided to directors.

BOARD OF DIRECTORS AND COMMITTEES

During fiscal 2018, our Board met five times and also acted by written consent three times. Each director attended at least 75% of the aggregate of the meetings of the Board and meetings of the committees of which the director was a member in our last fiscal year held during the period when the director served on the Board or the committees, as applicable.

The Board has a standing Audit Committee, Compensation Committee, Nominating and Corporate Governance Committee, and Research and Development Committee. All members of the Audit, Compensation, and Nominating and Corporate Governance Committees are non-employee directors whom the Board has determined are independent under applicable independence standards (including the heightened independence standards that apply to Audit Committee and Compensation Committee members).

Six of the eight directors serving at the time of the 2018 Annual Meeting of Stockholders (the 2018 Annual Meeting) attended such annual meeting. Each director who is up for election at an annual meeting of stockholders or who has a term that continues after such annual meeting is encouraged to attend the annual meeting of stockholders.

Board Leadership Structure and Risk Oversight

We currently separate the positions of Chairman of the Board and Chief Executive Officer, which allows our Chief Executive Officer, Dr. Kakkis, to focus on our day-to-day business, while allowing the Chairman of the Board, Mr. Welch, to lead the Board in its fundamental role of providing advice to and independent oversight of management. Independent oversight of management is an important goal of the Board, which is why our Corporate Governance Guidelines provide that a lead independent director will be appointed by the Board if the Chairman is not independent. Additionally, our Board recognizes the time, effort, and energy that the Chief Executive Officer is required to devote to his position in the current business environment, as well as the commitment required to serve as our Chairman. Our Board also believes that the separation of the Chairman and Chief Executive Officer positions fosters a greater role for the independent 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. The benefits of the separated Chairman and Chief Executive Officer positions are augmented by the independence of eight of our nine current directors, including our Chairman, and our independent Board committees that provide appropriate oversight in the areas described below. At executive sessions of independent directors, these directors can speak candidly on any matter of interest. The independent directors of the Board regularly meet in executive sessions, having done so five times in 2018, and the Chairman presides at these sessions. We believe this structure provides effective oversight of our management and the Company.

The Board has overall responsibility for the oversight of our risk management process, which is designed to support the achievement of organizational objectives, including strategic objectives, to improve long-term organizational performance, and enhance stockholder value. Risk management includes not only understanding company-specific risks and the steps management implements to manage those risks, but also what level of risk is acceptable and appropriate for us. Management is responsible for establishing our business strategy, identifying and assessing the related risks, and implementing appropriate risk management practices. The Board periodically reviews our business strategy and management s assessment of the related risk and discusses with management the appropriate level of risk for us. The Board also delegates to Board committees oversight of selected elements of risk as set forth below.

Board Committees

Audit Committee. The members of the Audit Committee are Mr. Fust (Chairperson), Mr. Aliski, and Mr. Narachi. The Audit Committee appoints, approves the compensation of, reviews the performance of, and assesses the independence of our independent registered public accounting firm; approves audit and permissible non-audit services, and the terms of such services, to be provided by our independent registered public accounting firm and members of management responsible for preparing our financial statements; reviews and discusses with management and the independent registered public accounting firm our annual and quarterly financial statements and related disclosures and critical accounting policies; reviews the adequacy of our internal control over financial reporting; establishes policies and procedures for the receipt and retention of accounting-related complaints and concerns; recommends whether our audited financial statements shall be included in our annual reports on Form 10-K; prepares the audit committee report to be included in our annual proxy statements; reviews all related-person transactions; reviews policies related to financial risk assessment and management; establishes, maintains, and oversees our Global Code of Conduct; assists the Nominating and Corporate Governance Committee by overseeing our compliance program with respect to legal and regulatory requirements impacting areas of financial risk; annually reviews and reassesses the adequacy of the Audit Committee charter; and

performs other

15

duties, as specified in the Audit Committee Charter, a copy of which is available on our website at www.ultragenyx.com under the Corporate Governance subsection of the Investors tab. The Audit Committee has been delegated the task of overseeing all financial risks facing us and reporting back to the Board regarding the same. The Audit Committee met six times in fiscal 2018. All members of the Audit Committee satisfy the current independence and financial literacy standards promulgated by Nasdaq and the SEC, and the Board has determined that Mr. Fust qualifies as an audit committee financial expert, as the SEC has defined that term in Item 407 of Regulation S-K.

Compensation Committee. The members of the Compensation Committee are Mr. Aliski (Chairperson), Dr. Siegall, and Mr. Welch. The Compensation Committee annually reviews and approves corporate goals and objectives relevant to the compensation of our executive officers; evaluates the performance of our executive officers in light of such goals and objectives, and determines the compensation of our executive officers; appoints, compensates, and oversees the work of any compensation consultant, legal counsel, or other advisor retained by the Compensation Committee; conducts the independence assessment outlined in Nasdaq rules with respect to any compensation consultant, legal counsel, or other advisor retained by the Compensation Committee; annually reviews and reassesses the adequacy of the Compensation Committee charter; oversees, and has the authority to administer, our compensation and benefit plans; reviews and approves our policies and procedures for the grant of equity-based awards; reviews and makes recommendations to the Board with respect to director compensation; reviews and discusses with management the compensation discussion and analysis, if any, to be included in our annual proxy statements or annual reports on Form 10-K; oversees the maintenance and presentation to the Board of management s plans for succession to senior management positions; and performs other duties, as specified in the Compensation Committee Charter, a copy of which is available on our website at www.ultragenyx.com under the Corporate Governance subsection of the Investors tab. The Compensation Committee may form and delegate authority to subcommittees, each consisting of one or more members of the Compensation Committee, with such powers as the Compensation Committee shall from time to time confer. Our Chief Executive Officer may recommend the amount and form of compensation of other executive officers to the Compensation Committee. The Compensation Committee met four times in fiscal 2018 and also acted by written consent seven times. All members of the Compensation Committee satisfy the current Nasdaq and SEC independence standards.

Nominating and Corporate Governance Committee. The members of the Nominating and Corporate Governance Committee are Mr. Fust (Chairperson), Mr. Narachi, and Mr. Welch. The Nominating and Corporate Governance Committee develops and recommends to the Board criteria for Board and committee membership; establishes procedures for identifying and evaluating Board candidates, including nominees recommended by stockholders; identifies individuals qualified to become members of the Board; recommends to the Board the persons to be nominated for election as directors and to each of the Board s committees; develops and recommends to the Board a set of corporate governance guidelines; oversees the maintenance and presentation to the Board of plans for succession to the position of Chief Executive Officer; assists the Compensation Committee in its oversight of succession planning for other senior management positions; oversees our compliance program; annually reviews and reassesses the adequacy of the Nominating and Corporate Governance Committee charter; and performs other duties, as specified in the Nominating and Corporate Governance Committee Charter, a copy of which is available on our website at www.ultragenyx.com under the Corporate Governance subsection of the Investors tab. The Nominating and Corporate Governance Committee has been delegated the task of overseeing all risks facing us, other than financial risks (which are overseen by the Audit Committee) and risks related to our compensation policies and programs (which are overseen by the Compensation Committee), and reporting back to the Board regarding the same. The Nominating and Corporate Governance Committee met six times in fiscal 2018. All members of the Nominating and Corporate Governance Committee satisfy the current Nasdaq independence standards.

Research and Development Committee. The members of the Research and Development Committee are Dr. Ekman (Chairperson), Dr. Dunsire, Dr. Kakkis, and Dr. Siegall. The Research and Development Committee assists the Board

in its oversight of the strategic direction for our pipeline and investment in research and

development; evaluates and advises on our key R&D activities and early pipeline development goals and strategy; assesses the resources and budget allocated to R&D spend and provides guidance regarding the investment of resources in pipeline growth; evaluates and provides input with respect to the quality of the science being conducted and overall program execution; assesses the overall quality of the R&D programs and prospects for progression to monitor our pipeline to maintain product flow; evaluates our clinical-stage pipeline and its progress, as well as those operational execution initiatives that are important for filing and approval of products in our pipeline; and performs other duties, as specified in the Research and Development Committee Charter, a copy of which is available on our website at www.ultragenyx.com under the Corporate Governance subsection of the Investors tab. The Research and Development Committee met two times in fiscal 2018.

Compensation Committee Interlocks and Insider Participation

During fiscal 2018, the Compensation Committee consisted of Mr. Aliski, Dr. Siegall, and Mr. Welch. None of the members of our Compensation Committee has at any time during the prior three years been one of our officers or employees. 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 or Compensation Committee.

17

EXECUTIVE OFFICERS

Our current executive officers, their respective ages as of the date of this Proxy Statement, and positions are set forth in the following table. Biographical information regarding each executive officer (other than Dr. Kakkis) is set forth following the table. Biographical information for Dr. Kakkis is set forth above under Proposal No. 1 (Election of Class III Directors).

Name	Age	Position
Emil D. Kakkis, M.D., Ph.D.	58	President and Chief Executive Officer, Director
Camille L. Bedrosian, M.D.	66	Chief Medical Officer and Executive Vice President
Wladimir Hogenhuis, M.D.	54	Chief Operating Officer
Dennis Huang	54	Chief Technical Operations Officer and Executive Vice President
Thomas Kassberg	58	Chief Business Officer and Executive Vice President
Karah Parschauer	41	General Counsel and Executive Vice President
John R. Pinion II	53	Chief Quality Officer and Executive Vice President of Translational
		Sciences
Shalini Sharp	44	Chief Financial Officer and Executive Vice President

Camille L. Bedrosian, M.D. has served as our Chief Medical Officer and Executive Vice President since January 2018. Prior to Ultragenyx, she served as Senior Vice President and Chief Medical Officer at Alexion Pharmaceuticals, Inc., a biopharmaceutical company, from May 2008 to January 2018. Between September 2002 and April 2008, she served as Vice President and Chief Medical Officer at Ariad Pharmaceuticals, Inc., an oncology company. From 1997 to 2002, Dr. Bedrosian served in the Clinical Research and Development Department of Wyeth/Genetics Institute, Inc., most recently as Senior Director, Oncology/Hematology. From 1986 to 1997, she was a Fellow, an Associate, and then Assistant Professor of Medicine in the Division of Hematology and Oncology at Duke University Medical Center and the Duke Comprehensive Cancer Center. Dr. Bedrosian received her A.B. degree from Harvard University/Radcliffe College in Chemistry, her M.S. in Biophysics from M.I.T., and her M.D. from Harvard Medical School.

Wladimir Hogenhuis, M.D. has served as our Chief Operating Officer since September 2018. Prior to Ultragenyx, he served as Senior Vice President and General Manager, Specialty Franchise at GlaxoSmithKline plc, a global healthcare group (*GSK*), between February 2014 and September 2018, and as Senior Vice President and General Manager, Cardiovascular, Metabolic, and Neurosciences Franchise between December 2012 and February 2014. Prior to GSK, Dr. Hogenhuis served in a variety of commercial management roles at Merck & Co., Inc., a global biopharmaceutical company. Dr. Hogenhuis holds an M.B.A. from The Wharton School and an M.D. from Leiden Medical School in Leiden, Netherlands.

Dennis Huang has served as our Executive Vice President since January 2016 and our Chief Technical Operations Officer since May 2015. Between May 2015 and January 2016, he served as our Senior Vice President. Prior to Ultragenyx, Mr. Huang served as Senior Vice President of Manufacturing and Supply Chain at InterMune, Inc., a biotechnology company, from August 2013 to March 2015. Prior to InterMune, Mr. Huang served as Vice President of Biologic Manufacturing and Development at Allergan, Inc., a global pharmaceutical company, from May 2006 to August 2013. Mr. Huang holds a B.A. in Chemistry from Knox College in Galesburg, Illinois.

Thomas Kassberg has served as our Executive Vice President since January 2016 and our Chief Business Officer since November 2011. Between November 2011 and January 2016, he served as our Senior Vice President. Prior to Ultragenyx, Mr. Kassberg worked as Vice President of Business Development at Corium International, Inc., a

biotechnology company, from July 2010 until October 2011. Prior to his work at Corium International, Inc., Mr. Kassberg worked as an independent consultant in corporate development and business strategy and consulted with a number of companies from March 2009 to June 2010, including Corium International, Inc., a biopharmaceutical company, and Rib-X Pharmaceuticals, Inc., a pharmaceutical company

focused on the development of novel antibiotics. Before becoming a consultant, Mr. Kassberg worked at Proteolix, Inc., a biotechnology company subsequently acquired by Onyx Pharmaceuticals, from January 2008 until February 2009, where he served as Senior Vice President of Corporate Development. Mr. Kassberg holds a B.A. in Business Administration from Gustavus Adolphus College and an M.B.A. from Northwestern University.

Karah Parschauer has served as our General Counsel and Executive Vice President since June 2016. Prior to Ultragenyx, Ms. Parschauer served in various executive capacities, and most recently as Vice President, Associate General Counsel, at Allergan plc, a pharmaceutical company, from June 2005 until June 2016. Prior to Allergan, Ms. Parschauer was an attorney at Latham & Watkins LLP, where she practiced in the areas of mergers and acquisitions, securities offerings, and corporate governance. Ms. Parschauer holds a B.A. in Biology from Miami University and a J.D. from Harvard Law School.

John R. Pinion II has served as our Chief Quality Officer and Executive Vice President of Translational Sciences since September 2017. Between January 2016 and September 2017, he served as our Executive Vice President of Analytical Sciences and Research, and between July 2015 and September 2017, as our Chief Quality Operations Officer. Between July 2015 and January 2016, he served as our Senior Vice President of Analytical Sciences and Research. Prior to Ultragenyx, Mr. Pinion served in various roles with increasing responsibilities at Genentech, a pharmaceutical company, between 2005 and June 2015, including his most recent position as the Senior Vice President and Global Head of Quality and Compliance for Roche/Genentech Pharma Technical Operations from October 2009 to July 2015. Mr. Pinion holds a B.S. of Science in Mechanical Engineering from the University of West Virginia.

Shalini Sharp has served as our Executive Vice President since January 2016 and our Chief Financial Officer since May 2012. Between May 2012 and January 2016, she served as our Senior Vice President. Prior to Ultragenyx, Ms. Sharp served in various executive capacities, and ultimately as Chief Financial Officer, of Agenus Inc., a biotechnology company, from August 2003 until May 2012. Prior to Agenus, Ms. Sharp held strategic planning and corporate finance roles and ultimately served as chief of staff to the chairman of the board at Elan Pharmaceuticals, a biotechnology company, from August 1998 to August 1999 and September 2001 to August 2003. Prior to Elan, Ms. Sharp was a management consultant at McKinsey & Company and an investment banker at Goldman Sachs, specializing in pharmaceuticals and medical devices. Ms. Sharp has also served as a board member of Array BioPharma Inc. since April 2017 and of Precision Biosciences Inc. since 2018, and served as a board member of Agenus between May 2012 and June 2018. Ms. Sharp holds a B.A. and an M.B.A. from Harvard University.

CERTAIN RELATIONSHIPS AND RELATED-PERSON TRANSACTIONS

Related-Person Transactions

Since January 1, 2018, we have not become, and are not currently proposed to be, a participant in any transactions required to be disclosed under SEC rules with any related persons, which are generally considered to be our directors and executive officers, nominees for director, holders of more than 5% of our outstanding common stock, and members of their immediate families.

Procedures for Related-Person Transactions

We have adopted a written related-person transactions policy that governs the review, approval, and/or ratification of transactions with a related person where the amount involved exceeds \$100,000 and in which any related person has or will have a direct or indirect interest. Under the policy, a related person is defined as any person described in Item 404(a) of Regulation S-K and includes any director, nominee for director, or executive officer of the Company; a

beneficial owner of more than five percent of any class of our voting securities; and a person who is an immediate family member of any such director, nominee for director, executive officer, or more-than-five percent beneficial owner (the term immediate family member included any child, stepchild,

19

parent, stepparent, spouse, sibling, mother-in-law, father-in-law, son-in-law, daughter-in-law, brother-in-law, or sister-in-law and any person (other than a tenant or employee) sharing the household of any such director, nominee for director, executive officer, or more-than-five percent beneficial owner).

Pursuant to this policy, if we want to enter into a transaction with a related person, our Chief Financial Officer (or General Counsel, in the case where the Chief Financial Officer has a direct or indirect interest in the transaction) will review the proposed transaction to determine if such transaction qualifies as a related-person transaction. If the Chief Financial Officer (or General Counsel, if applicable) determines that the proposed transaction is a related-person transaction, then the proposed transaction will be submitted to the Audit Committee for consideration at the next Audit Committee meeting; provided, however, that if the Chief Financial Officer (or General Counsel, if applicable), in consultation with the Chief Executive Officer, determines that it is not practicable or desirable to wait until the next meeting of the Audit Committee, then the Chief Financial Officer (or General Counsel, if applicable) shall submit the proposed transaction to the chairperson of the Audit Committee (who possesses delegated authority to act between meetings of the Audit Committee to pre-approve or ratify, as applicable, any related-person transaction in which the aggregate amount involved is expected to be less than \$1 million).

In the event that our Chief Executive Officer or Chief Financial Officer (or General Counsel, if applicable) becomes aware of a related-person transaction that has not been previously approved or previously ratified under our related-person transaction policy, the transaction, if pending or ongoing, will be promptly submitted to the Audit Committee or the chairperson of the Audit Committee for consideration. If the transaction is already completed, the Audit Committee or the chairperson of the Audit Committee shall evaluate the transaction to determine if rescission of the transaction and/or any disciplinary action is appropriate.

In evaluating these transactions, the Audit Committee or the chairperson of the Audit Committee, as applicable, will consider all of the relevant facts and circumstances available, including (if applicable) but not limited to: the benefits to us; the impact on a director s independence in the event the related person is a director, an immediate family member of a director, or an entity in which a director has a position or relationship; the availability of other sources for comparable products or services; the terms of the transaction; and the terms available to unrelated third parties or to employees generally. The Audit Committee or the chairperson of the Audit Committee, as applicable, will only approve related-person transactions that are in, or are not inconsistent with, the best interests of the Company and its stockholders, as the Audit Committee or the chairperson of the Audit Committee determines in good faith.

No member of the Audit Committee shall participate in any review, consideration or approval of any related-person transaction with respect to which such member or any of his or her immediate family members is the related person.

SECTION 16(A) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE

Under Section 16(a) of the Exchange Act and SEC rules, our directors, executive officers and beneficial owners of more than 10% of any class of equity security are required to file periodic reports of their ownership, and changes in that ownership, with the SEC. To our knowledge, based solely on a review of copies of the reports filed with the SEC and any written representations that no other reports were required, all reports required to be filed by our executive officers, directors and beneficial owners of more than 10% of our common stock were timely filed in fiscal 2018, except that Ms. Parschauer filed one late Form 4, which reported an option exercise inadvertently omitted from an earlier filing, and, as a result of a miscommunication prior to our initial public offering regarding the attribution of indirect beneficial ownership of certain trust holdings, Mr. Aliski inadvertently filed five late Form 4s, comprising six historical indirect transactions by a trust for the benefit of Mr. Aliski s spouse and children, and inadvertently filed one late Form 3 transaction to reflect the indirect holdings by such trust at the time of our initial public offering in 2014.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth information relating to the beneficial ownership of our common stock as of April 12, 2019 (unless otherwise indicated), by:

each person, or group of affiliated persons, known by us to beneficially own more than 5% of our outstanding shares of common stock;

each of our directors;

each of our named executive officers; and

all current directors and executive officers as a group.

The number of shares beneficially owned by each entity, person, director or executive officer is determined in accordance with the rules of the SEC, and the information is not necessarily indicative of beneficial ownership for any other purpose. Under such rules, beneficial ownership includes any shares over which the individual has sole or shared voting power or investment power as well as any shares that the individual has the right to acquire within 60 days through the exercise of any stock options, warrants or other rights. We believe, based on the information furnished to us, that except as otherwise indicated, and subject to applicable community property laws, the persons named in the table have sole voting and investment power with respect to all shares of common stock held by that person.

The percentage of shares beneficially owned is computed on the basis of 57,339,027 shares of our common stock outstanding as of April 12, 2019. Shares of our common stock that a person has the right to acquire within 60 days are deemed outstanding for purposes of computing the percentage ownership of the person holding such rights, but are not deemed outstanding for purposes of computing the percentage ownership of any other person, except with respect to the percentage ownership of all directors and executive officers as a group. Unless otherwise indicated below, the address for each beneficial owner listed is c/o Ultragenyx Pharmaceutical Inc., 60 Leveroni Court, Novato, California 94949.

21

	Beneficial Number of	Beneficial Ownership		
Name and Address of Beneficial Owner	Number of Shares	% of Total		
Stockholders Owning Greater than 5%:	Siluito	70 OI 10tul		
Wellington Management Group LLP and affiliates ⁽¹⁾	5,996,082	10.5%		
Capital Research Global Investors ⁽²⁾	5,856,155	10.2%		
Capital International Investors ⁽³⁾	5,302,587	9.2%		
BlackRock, Inc. ⁽⁴⁾	4,476,812	7.8%		
The Vanguard Group ⁽⁵⁾	4,161,780	7.3%		
FMR LLC ⁽⁶⁾	2,949,186	5.1%		
Directors and Named Executive Officers:				
William Aliski ⁽⁷⁾	190,460	*		
Deborah Dunsire, M.D. ⁽⁸⁾	24,458	*		
Lars Ekman, M.D., Ph.D. ⁽⁹⁾	34,250	*		
Matthew K. Fust ⁽¹⁰⁾	50,431	*		
Michael Narachi ⁽¹¹⁾	44,250	*		
Clay B. Siegall, Ph.D. ⁽¹²⁾	51,750	*		
Shehnaaz Suliman, M.D. ⁽¹³⁾	2,222	*		
Daniel G. Welch ⁽¹⁴⁾	44,250	*		
Emil D. Kakkis, M.D., Ph.D. ⁽¹⁵⁾	3,368,843	5.8%		
Camille Bedrosian, M.D. ⁽¹⁶⁾	32,197	*		
Wladimir Hogenhuis M.D.		*		
Karah Parschauer ⁽¹⁷⁾	59,268	*		
Shalini Sharp ⁽¹⁸⁾	155,189	*		
All executive officers and directors as a group ⁽¹⁹⁾ (16 persons)	4,598,442	7.8%		

(2)

^{*} Indicates beneficial ownership of less than 1% of the total outstanding common stock.

⁽¹⁾ Based on information set forth in a Schedule 13G/A filed with the SEC on February 12, 2019 by Wellington Management Group LLP, Wellington Group Holdings LLP, Wellington Investment Advisors Holdings LLP and Wellington Management Company LLP (the Wellington entities). The Schedule 13G/A reported that, as of December 31, 2018, Wellington Management Group LLP, Wellington Group Holdings LLP, and Wellington Investment Advisors Holdings LLP have shared voting power with respect to 4,620,643 of these shares and shared dispositive power with respect to 5,996,082 of these shares; and Wellington Management Company LLP has shared voting power with respect to 4,494,052 of these shares and shared dispositive power with respect to 5,514,231 of these shares. The Wellington entities have no sole voting or sole dispositive power with respect to any of these shares. The principal business address for the Wellington entities is listed in such filing as c/o Wellington Management Company LLP, 280 Congress Street, Boston, MA 02210.

Based on information set forth in a Schedule 13G/A filed with the SEC on February 14, 2019 by Capital Research Global Investors, a division of Capital Research and Management Company (CRMC). The Schedule 13G/A reported that, as of December 31, 2018, Capital Research Global Investors has sole voting and sole dispositive power with respect to all shares beneficially owned as a result of acting as investment advisor to various investment companies. Capital Research Global Investors disclaims beneficial ownership of these shares pursuant to Rule 13d-4 of the Exchange Act. The principal business address for Capital Research Global Investors is listed in such filing as 333 South Hope Street, Los Angeles, CA 90071.

(3) Based on information set forth in a Schedule 13G/A filed with the SEC on February 14, 2019 by Capital International Investors. The Schedule 13G/A reported that, as of December 31, 2018, Capital International Investors has sole voting power with respect to 5,008,511 of these shares and sole dispositive power with

22

respect to 5,302,587 of these shares. Capital International Investors disclaims beneficial ownership of these shares pursuant to Rule 13d-4 of the Exchange Act. Capital International Investors divisions of CRMC and Capital Bank and Trust Company, as well as the following CRMC subsidiaries: Capital Guardian Trust Company, Capital International Limited, Capital International Sarl, Capital International K.K. and Capital International, Inc., collectively provide investment management services under the name Capital International Investors. The principal business address for Capital International Investors is listed in such filing as 11100 Santa Monica Boulevard, 16th Floor, Los Angeles, CA 90025.

- (4) Based on information set forth in a Schedule 13G/A filed with the SEC on February 6, 2019 by BlackRock, Inc. The Schedule 13G/A reported that, as of December 31, 2018, BlackRock, Inc. has sole voting power with respect to 4,347,972 shares and sole dispositive power with respect to 4,476,812 shares. The principal business address for BlackRock, Inc. is listed in such filing as 55 East 52nd Street, New York, NY 10055.
- (5) Based on information set forth in a Schedule 13G/A filed with the SEC on February 11, 2019 by The Vanguard Group. The Schedule 13G/A reported that, as of December 31, 2018, The Vanguard Group has sole voting power with respect to 98,900 shares, shared voting power with respect to 6,710 shares, sole dispositive power with respect to 4,060,790 shares, and shared dispositive power with respect to 100,990 shares. The principal business address for The Vanguard Group is listed in such filing as 100 Vanguard Blvd., Malvern, PA 19355.
- (6) Based on information set forth in a Schedule 13G/A filed with the SEC on February 13, 2019 by FMR LLC and Abigail P. Johnson. The Schedule 13G/A reported that, as of December 31, 2018, FMR LLC has sole voting power with respect to 498,669 of these shares and sole dispositive power with respect to 2,949,186 of these shares. FMR LLC has no shared voting or shared dispositive power with respect to any of the shares. The principal business address for FMR LLC and Abigail P. Johnson is listed in such filing as 245 Summer Street, Boston, MA 02210.
- (7) Consists of (a) 90,350 shares of common stock held by the William and Carolyn Aliski Trust, (b) 69,610 shares of common stock held by Mr. Aliski, (c) 27,500 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (d) 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019. Mr. Aliski shares voting and dispositive power over the 90,350 shares of common stock held by the William and Carolyn Aliski Trust; each of Mr. Aliski s spouse and nephew is a trustee of such trust. Mr. Aliski has sole voting and dispositive power over the 69,610 shares of common stock held by him, the 27,500 shares of common stock issuable pursuant to stock options held by Mr. Aliski and the 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units.
- (8) Consists of (a) 1,875 shares of common stock, (b) 19,583 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.
- (9) Consists of (a) 3,750 shares of common stock, (b) 27,500 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.

- (10) Consists of (a) 8,750 shares of common stock, (b) 38,681 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.
- (11) Consists of (a) 3,750 shares of common stock, (b) 37,500 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.
- (12) Consists of (a) 3,750 shares of common stock, (b) 45,000 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.

23

- (13) Consists of 2,222 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019.
- (14) Consists of (a) 3,750 shares of common stock, (b) 37,500 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 3,000 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.
- (15) Consists of (a) 2,559,741 shares of common stock held by the Emil Kakkis and Jenny Soriano Living Trust, dated June 18, 2009, (b) 414,828 shares of common stock held by Dr. Kakkis, (c) 149,700 shares of common stock that may be acquired pursuant to the exercise of warrants held by Dr. Kakkis, (d) 237,334 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (e) 7,240 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019. Dr. Kakkis shares voting and dispositive power over the 2,559,741 shares of common stock held by the Emil Kakkis and Jenny Soriano Living Trust, dated June 18, 2009; each of Dr. Kakkis and Dr. Soriano is a trustee of such trust. Dr. Kakkis has sole voting and dispositive power over the 414,828 shares of common stock held by him, the 149,700 shares of common stock that may be acquired pursuant to the exercise of warrants held by Dr. Kakkis, the 237,334 shares of common stock issuable pursuant to stock options held by Dr. Kakkis and the 7,240 shares of common stock issuable pursuant to the vesting of restricted stock units.
- (16) Consists of (a) 2,864 shares of common stock and (b) 29,333 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019.
- (17) Consists of (a) 1,489 shares of common stock, (b) 57,063 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 716 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.
- (18) Consists of (a) 46,544 shares of common stock, (b) 105,829 shares of common stock issuable pursuant to stock options exercisable within 60 days of April 12, 2019 and (c) 2,816 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.
- (19) Consists of (a) 3,296,563 shares of common stock held by our directors and executive officers, (b) 149,700 shares of common stock that may be acquired pursuant to the exercise of warrants by Dr. Kakkis, (c) 1,112,784 shares of common stock issuable pursuant to stock options held by our directors and executive officers that are exercisable within 60 days of April 12, 2019 and (d) 39,395 shares of common stock issuable pursuant to the vesting of restricted stock units within 60 days of April 12, 2019.

24

EXECUTIVE COMPENSATION

Compensation Discussion and Analysis

The following compensation discussion and analysis describes the material elements of compensation earned in fiscal 2018 by each of the executive officers identified below in the Summary Compensation Table, who are referred to collectively as our named executive officers. Our named executive officers with respect to the fiscal year that ended on December 31, 2018 are:

Emil D. Kakkis, M.D., Ph.D., President and Chief Executive Officer;

Shalini Sharp, Chief Financial Officer and Executive Vice President;

Camille L. Bedrosian, M.D., Chief Medical Officer and Executive Vice President;

Wladimir Hogenhuis, M.D., Chief Operating Officer; and

Karah Parschauer, General Counsel and Executive Vice President.

These persons constitute our principal executive officer, our principal financial officer and our three other most highly paid executive officers serving during fiscal 2018.

Compensation Philosophy and Objectives

Our philosophy in setting compensation policies for executive officers has two fundamental objectives: (1) to attract and retain a highly-skilled team of executives and (2) to align our executives—interests with those of our stockholders by rewarding short-term and long-term performance and tying compensation to increases in stockholder value. The Compensation Committee believes that executive compensation should be directly linked to both continuous improvements in corporate performance (pay for performance) and accomplishments that are expected to increase stockholder value. In furtherance of this goal, the Compensation Committee has adhered to the following guidelines as a foundation for decisions that affect the levels of compensation:

provide a competitive total compensation package that enables us to attract and retain highly qualified executives with the skills and experience required for the achievement of business goals;

align compensation elements with our annual goals and long-term business strategies and objectives;

promote the achievement of key strategic and financial performance measures by linking short-term and long-term cash and equity incentives to the achievement of measurable corporate and individual

performance goals and objectives; and

align executives incentives with the creation of stockholder value.

The Compensation Committee has historically compensated executive officers with three compensation components: a base salary, an annual bonus opportunity, and equity-based compensation. The Compensation Committee believes that cash compensation in the form of base salary and an annual bonus opportunity provides our executive officers with short-term rewards for success in achieving annual goals and objectives, and that long-term compensation through the award of stock options, restricted stock units, or other equity awards aligns the objectives of management with those of our stockholders with respect to long-term performance and success of the Company.

In setting compensation levels for our executive officers, the Compensation Committee does not formulaically benchmark against any one specific reference point. Instead, it considers a variety of factors, including peer group survey data, tenure, role, responsibilities, performance, and local competitive market practices. Compensation paid to our named executive officers is delivered primarily through at-risk pay, based on both short-term and long-term incentives, including the achievement of corporate and individual goals and objectives.

In addition to our compensation elements, the following compensation program features are designed to align our executive team s interests 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 employees, including our executive team, from engaging in hedging transactions that transfer, with respect to equity compensation received by an employee, all or a portion of the risk of a decline in the market price of shares of our stock;

We prohibit our employees, including our executive team, from pledging our securities;

We do not offer our executive team any substantially enhanced benefits or perquisites when compared with our overall employee population;

We have a clawback policy, which permits us to recover performance-based cash and equity compensation paid to our current or former executive officers in certain cases; see Clawback Policy;

We require our executive officers and directors to hold shares of our common stock in order to align their long-term interests with those of our stockholders; see Minimum Stock Ownership Requirements ;

We have double-trigger vesting of outstanding equity awards following covered transactions under our employment arrangements with our executive officers. See Summary Compensation Table Narrative Disclosure to Summary Compensation Table Covered Transaction; and

We have established a long-term incentive program applicable to all current employees, including our executive officers, to further tie compensation to performance and focus employee efforts on corporate goals and objectives; see Equity Compensation Performance-Based Equity Grants in Fiscal 2018.

Stockholder Outreach and Most Recent Say-On-Pay Vote

Our stockholder outreach program is a year-long effort by our management to engage with our stockholders in a continuous and meaningful way and is consistent with our commitment to engagement, communication, and transparency. The Compensation Committee views stockholder feedback as an important factor in developing and improving our executive compensation program.

Following our 2018 Annual Meeting, our Board and Compensation Committee determined that management should conduct enhanced outreach efforts in response to the results of our say-on-pay vote at the 2018 Annual Meeting, at which 74.6% of votes cast were in support of our proposal to approve the compensation of our named executive officers. While this result reflects broad support of our compensation philosophy and our pay practices, it represents a decline from 2017 and 2016 results (83.9% and 84.9% support, respectively).

26

In order to focus our enhanced outreach efforts, we engaged a proxy consulting firm to identify the stockholders who voted AGAINST our 2018 say-on-pay proposal. After analyzing the votes cast at our 2018 Annual Meeting, it was determined that a related group of stockholders accounted for nearly all of the votes cast AGAINST our 2018 say-on-pay proposal. Our management reached out to these stockholders to discuss their thoughts and receive feedback on our compensation philosophy and programs. During these conversations, we learned that the driver for nearly all the votes cast AGAINST our 2018 say-on-pay proposal was disapproval of the evergreen feature in our 2014 Incentive Plan and 2014 Employee Stock Purchase Plan, which these stockholders viewed as transferring wealth from stockholders and increasing dilution without stockholder approval of the evergreen increases each year. Our 2014 Incentive Plan and 2014 Employee Stock Purchase Plan, including the evergreen provisions within the plans, were approved by our stockholders prior to our initial public offering in 2014.

The Compensation Committee considered the outcome of the most recent say-on-pay vote and the feedback obtained during the stockholder outreach efforts described above and did not make any material changes to its compensation practices as a direct result of the vote. In order to address the concerns of our current stockholders regarding the evergreen feature of our incentive plans, the Compensation Committee and the Board determined that we will not seek to extend the evergreen provisions, nor adopt new ones, upon expiration of the current evergreen provisions. The evergreen provision in each plan expires after January 1, 2024.

Roles in Determining Compensation

Compensation Committee

The Board has delegated to the Compensation Committee the responsibility to ensure that total compensation paid to our executive officers, including our named executive officers, is consistent with our compensation policy and objectives. The Compensation Committee oversees and approves all compensation arrangements and actions for our executive officers, including our named executive officers. While the Compensation Committee draws on a number of resources, including input from the Board, the Chief Executive Officer, and its independent compensation consultants, to make decisions regarding our executive compensation program, ultimate decision-making authority rests with the Compensation Committee. The Compensation Committee retains discretion over base salaries, annual bonuses, and equity compensation for executive officers. The Compensation Committee relies upon the judgment of its members in making compensation decisions, after reviewing our corporate performance and carefully evaluating an executive s performance during the year against established goals, operational performance, and business responsibilities. In addition, the Compensation Committee incorporates discretion in the assessment process to respond to and adjust for the evolving business environment.

Compensation Consultant

The Compensation Committee retains the services of an independent, external compensation consultant, Radford, an Aon Company (*Radford*). The mandate of the consultant is to assist the Compensation Committee in its review of executive and director compensation practices, including the competitiveness of pay levels, executive compensation design, benchmarking with our peers in the industry, and other technical considerations, including tax- and accounting-related matters. The Compensation Committee annually evaluates Radford s performance and determines whether to engage Radford or another compensation consultant and has the final authority to engage and terminate Radford s services. Our Compensation Committee has assessed the independence of Radford consistent with Nasdaq listing standards and has concluded that the engagement of Radford does not raise any conflict of interest.

Chief Executive Officer

The Chief Executive Officer attends Compensation Committee meetings and works with the Compensation Committee Chairman and Radford to develop compensation recommendations for the executive

officers (excluding the Chief Executive Officer), based upon individual experience and breadth of knowledge, internal considerations, individual performance during the fiscal year, competitive market considerations, and other factors deemed relevant by the Compensation Committee. The recommendations are then submitted to the Compensation Committee for review and consideration. The Compensation Committee works directly with Radford and the other non-employee directors of the Board to evaluate the performance of the Chief Executive Officer and determine compensation actions for the Chief Executive Officer.

Defining and Comparing Compensation to Market Benchmarks

While we do not establish compensation levels based solely on benchmarking, pay practices at other companies are an important factor that the Compensation Committee considers in assessing the reasonableness of compensation and ensuring that our compensation practices are competitive in the marketplace. In order to evaluate the level of compensation for our named executive officers for 2018, our Compensation Committee, using information provided by Radford, established a peer group of publicly traded, national, and regional companies in the biopharmaceutical and biotechnology industries based on a balance of the following criteria:

companies with drugs in late-stage development, as well as recently commercial companies;

companies with comparable market capitalizations (i.e., in the range of \$750 million to \$7.5 billion);

companies with employee headcounts between 150 and 800; and

companies located in biotech hubs, such as the San Francisco bay area, San Diego, Massachusetts and the New York/New Jersey tristate area.

Our peer group for 2018, referred to as our 2018 peer group, used to evaluate compensation actions for the 2018 fiscal year was selected by the Compensation Committee based on Radford s recommendation in June 2017 and is comprised of the following 22 publicly-traded companies in the pharmaceutical and biotechnology industries:

ACADIA Pharmaceuticals Inc. Intercept Pharmaceuticals, Inc. Radius Health

Agios Pharmaceuticals, Inc. Ionis Pharmaceuticals, Inc. Sage Therapeutics

Alnylam Pharmaceuticals, Inc. Juno Therapeutics, Inc. Sarepta Therapeutics, Inc.

bluebird bio, Inc. Kite Pharma, Inc. Spark Therapeutics, Inc.

Clovis Oncology, Inc. Neurocrine Biosciences, Inc. TESARO, Inc.

Exelixis Inc. Portola Pharmaceuticals, Inc. Theravance Biopharma, Inc.

FibroGen, Inc. Prothena Corporation Plc

Halozyme Therapeutics, Inc. Puma Biotechnology, Inc.

We believe that the compensation practices of our 2018 peer group provided us with appropriate benchmarks for

evaluating the compensation of our named executive officers for 2018 because of the developmental, market and organizational characteristics we shared with our peer group. At the time that we selected our 2018 peer group we were at approximately the 54th percentile in terms of market capitalization and the 72nd percentile in terms of the number of employees relative to the peer group.

Annual Performance Reviews

Our Compensation Committee conducts an annual performance review of our named executive officers and approves their compensation. By the end of the first quarter of each year, base salaries and equity awards for the fiscal year are approved and, for purposes of determining potential payments under our corporate bonus plan (the **bonus plan**), annual corporate goals and individual performance objectives are established and set forth in

28

writing. After the end of each year, our Compensation Committee determines the amounts that will be paid to our executive officers under our bonus plan after carefully (1) reviewing overall corporate performance; (2) evaluating each named executive officer s annual performance against established corporate goals; and (3) in the case of executive officers other than our Chief Executive Officer, reviewing the achievement of individual performance objectives.

At its first regularly scheduled meeting each year, our Compensation Committee, with input from the Board, evaluates our Chief Executive Officer s individual performance, determines whether to adjust his base salary, and determines the amount of equity awards and his bonus, if any, under our bonus plan.

Our Compensation Committee may also review and adjust the compensation of our executive officers throughout the course of the year.

Base Salary

Overview

The Compensation Committee believes it is important to provide adequate fixed compensation to our executive officers working in a highly volatile and competitive industry. The Compensation Committee s choice of actual pay levels versus our competitive market reflects consideration of our stockholders interests in paying what is necessary to achieve our corporate goals, while conserving cash and equity as much as practicable. In determining appropriate base salary levels for a given executive officer, the Compensation Committee considers the following factors:

individual performance of, and overall management of the function by, the executive, as well as our overall corporate performance, during the prior year;

level of responsibility, including breadth, scope, and complexity of the position;

level of experience and expertise of the executive;

internal review of the executive s compensation relative to other executives to ensure internal equity;

executive officer compensation levels at other similar companies to ensure competitiveness; and

recruiting and retention market dynamics.

The effective date of annual merit increases to base salary is March 1.

2018 Base Salaries

The Compensation Committee engaged Radford to conduct a competitive review and analysis of our current executive compensation program relative to our 2018 peer group. Radford prepared an Executive Compensation Assessment report in October 2017 that provided a competitive assessment of our executive compensation program as compared

to the 2018 peer group data for base salaries, target total cash compensation, and equity compensation.

For 2018, increases in base salaries for Dr. Kakkis, Ms. Sharp, and Ms. Parschauer were approximately 3%, 3%, and 6% annualized, respectively. These increases were based on their individual performance against goals and objectives during 2017 (and were similar to merit-based increases for our employees generally), as

29

well as Radford s trends report of standard annual merit for 2018 salary increases. For Ms. Parschauer, the additional increase was based on the need to bring her base salary up to the 50th percentile of the 2018 peer group.

In June 2018, the Compensation Committee selected a new peer group, reflecting commercial companies, to use in evaluating compensation actions for the 2019 fiscal year. Radford prepared an assessment of the Company's executive compensation against the new 2019 peer group in September 2018 and noted a market lag in the Company's positioning with respect to some positions based on the updated 2019 peer group. In particular, base salaries for some executive officers, including our Chief Executive Officer and General Counsel, were below the 50th percentile compared to the new 2019 peer group. In September 2018, the Compensation Committee approved increases to the base salaries of Dr. Kakkis and Ms. Parschauer of approximately 6% and 13%, respectively, effective September 23, 2018. These increases were intended to position the salaries more competitively with the 2019 peer group. The Compensation Committee determined it was important to immediately increase the base salaries for these executive officers, rather than waiting until 2019, in order to retain their services to help us achieve our corporate goals and business objectives.

The following table shows the increases in base salaries for our named executive officers between fiscal 2017 and fiscal 2018:

Name	Title	scal 2017 e Salary ⁽¹⁾	Ba	scal 2018 ase Salary as of March 1, 2018 ⁽²⁾	Percentage Increase (%) (1)	Ba Sep	iscal 2018 ase Salary as of tember 23, 2018 ⁽²⁾
Emil D. Kakkis, M.D.,	President and Chief Executive						
Ph.D.	Officer	\$ 655,000	\$	674,650	3.0	\$	714,000
Shalini Sharp	Chief Financial Officer and						
_	Executive Vice President	\$ 459,305	\$	473,084	3.0	\$	473,084
Camille L. Bedrosian,	Chief Medical Officer and						
M.D.	Executive Vice President	N/A	\$	500,000	N/A	\$	500,000
Wladimir Hogenhuis,							
M.D.	Chief Operating Officer	N/A		N/A	N/A		N/A
Karah Parschauer	General Counsel and						
	Executive Vice President	\$ 357,310	\$	378,749	6.0	\$	429,122

- (1) Dr. Bedrosian commenced employment with us in January 2018, and Dr. Hogenhuis commenced employment with us in September 2018.
- (2) Effective September 23, 2018, the base salary for Dr. Kakkis increased to \$714,000 and the base salary for Ms. Parschauer increased to \$429,122, representing increases of 5.8% and 13.3%, respectively, over the Fiscal 2018 Base Salary that was effective as of March 1, 2018, and increases of 9.0% and 20.1%, respectively, over the Fiscal 2017 Base Salary noted in the table above. Dr. Hogenhuis commenced employment with us on September 28, 2018 at an initial base salary of \$515,000.

Annual Bonus

Overview

Our bonus plan provides an opportunity for cash bonus awards based upon the attainment of annual performance goals. For all executive officers, except the Chief Executive Officer, the goals relate to both corporate and individual performance. Corporate performance goals include business, financial, and operational measures or objectives. Individual performance goals focus on individual contributions that drive achievement of the corporate goals and provide leadership for the executive officers respective functions. The Chief Executive Officer s bonus is based solely on corporate performance.

The individual goals for each executive officer, other than the Chief Executive Officer, are adopted at the beginning of each performance year by the Chief Executive Officer and communicated to each executive officer. The Compensation Committee considers the individual performance of each executive officer (other than our Chief Executive Officer) and our overall corporate performance for the preceding fiscal year in deciding whether to award a bonus and, if one is to be awarded, the amount of the bonus.

All executive officers are assigned annual bonus targets, expressed as a percent of base salary, based on each executive officer s accountability, scope of responsibilities, and potential impact on performance, as well as peer group competitive data for similarly situated positions. The annual bonus is weighted 75% for corporate performance and 25% for individual performance, except that the annual bonus for the Chief Executive Officer is weighted 100% for corporate performance. With respect to the corporate component of the bonus, the maximum payout is 150% of target. With respect to the individual component of the bonus, the maximum payout is 120% of target. Actual payouts are based upon achievement with respect to established goals (for corporate performance) and individual performance rating (for individual performance).

Generally, by the end of each fiscal year, the Compensation Committee assesses corporate performance, and determines an overall percentage of goal achievement, for such year. This corporate performance score determines the size of the bonus pool applicable to the corporate component of the bonus plan. A score at or below 50% results in the corporate component of the bonus pool not being funded.

If an executive officer receives a performance rating that he or she only partially meets expectations, then the individual component of the bonus is paid out at 50%; if an executive officer receives an unsatisfactory performance rating, then the individual component of the bonus is not paid out to that officer. Subject to the rights contained in any agreement between the Company and the executive officer, an executive officer must be employed by the Company on the bonus payment date to be eligible to receive a bonus payment.

Fiscal 2018 Bonuses

Annual corporate goals for fiscal 2018 were proposed by our executive officers and approved by our Board in early 2018 upon the recommendation of our Compensation Committee. Individual objectives for our executive officers for 2018 were proposed by each executive officer, with review, input and confirmation from our Chief Executive Officer.

For 2018, our Compensation Committee set the annual targets for our executive officers bonuses as a percent of base salary generally targeting the 50th percentile of our 2018 peer group, which resulted in no change to the targets from 2017. For executive officers hired after January 1, 2018, bonus targets were established in the offer letters for such officers. Following the September 2018 increases to the base salaries of Dr. Kakkis and Ms. Parschauer, the Compensation Committee determined to maintain the 2018 target bonus percentages established at the beginning of the year, but to calculate the bonuses using the base salaries in effect following the September 2018 increases, in order to maintain the general position of their total direct compensation against the 2019 peer group until compensation decisions could be made for the 2019 fiscal year. The target bonuses, as a percentage of base salary, for the named executive officers for fiscal 2018 are set forth in the following table.

		Target Bonus for Fiscal 2018
Name	Title	(% of Base Salary)
Emil D. Kakkis, M.D., Ph.D.	President and Chief Executive	
	Officer	60%

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Shalini Sharp	Chief Financial Officer and	
_	Executive Vice President	40%
Camille L. Bedrosian, M.D.	Chief Medical Officer and	
	Executive Vice President	40%
Wladimir Hogenhuis, M.D.	Chief Operating Officer	50%
Karah Parschauer	General Counsel and Executive	
	Vice President	40%

In December 2018, the Compensation Committee assessed our overall 2018 performance against the achievement of the corporate goals to determine a total percentage of achievement between 0% and 150%. The Compensation Committee considered the following general performance goals, as well as the relative weighting of these goals, in assessing overall performance for the 2018 fiscal year:

Category	Weighting	Goals Measured
Program Development	75%	Negotiating, preparing, and making regulatory submissions in target territories and obtaining market authorizations for two products in key territories
		Achieving targets for global revenue in our territories, patient diagnosis, start forms, and patient satisfaction
		Supporting named patient program requests
		Advancing translational research and early stage gene therapy programs
		Completing studies and treatment of trial cohorts and DMC reviews and releasing topline results
General Corporate	25%	Securing or advancing collaborations
		Retaining key contributors
		Maintaining employee engagement
		Maintaining operating cash usage within 59 of budget
In establishing these scale the Commencetion Co		Execution on all commercial and development goals while maintaining a culture of high ethics and compliance, with no adverse regulatory actions

In establishing these goals, the Compensation Committee selected performance goals that it considered aggressive, meaning that they are goals that were considered achievable, but only with a high degree of diligence and success in execution.

In assessing performance against these goals, the Compensation Committee reviewed each goal and determined whether or not it was achieved. The Compensation Committee then referred to the relative importance of the goals, based on the previously established weightings of each goal. After completing this assessment, the Compensation Committee determined that some goals were not completely achieved, and other goals were exceeded. The Compensation Committee also considered additional key corporate achievements that were not represented in the 2018 corporate goals, including a successful financing, the sale of two priority review vouchers, and the successful

integration of Dimension Therapeutics, Inc. following its acquisition in November 2017. The Compensation Committee then determined an overall percentage of achievement for all goals combined, which resulted in 100% achievement for fiscal year 2018.

32

In December 2018, in addition to assessing the foregoing corporate goals, the Compensation Committee assessed the individual accomplishments of our named executive officers, other than our Chief Executive Officer, for purposes of determining the individual component of their annual bonus. Key individual achievements for these named executive officers are summarized below:

Named Executive Officer

Shalini Sharp

Chief Financial Officer and EVP

Camille L. Bedrosian, M.D.

Chief Medical Officer and EVP

Wladimir Hogenhuis, M.D.

Chief Operating Officer Karah Parschauer

Key 2018 Achievements

Integration of Dimension acquisition

Raised \$271 million in net proceeds from equity offering

Sold two priority review vouchers for a total of \$170 million

Managed budget to within 5% despite unexpected costs

Revised global tax structure following the U.S. tax reform by Congress

Implemented accounting and operations for commercial launches

Mepsevii EU approval with broad indication

Crysvita global filings and approval in the United States and Canada with broad label

Negotiated UX007 NDA filing based on Phase 2 data with the FDA

Restructured the North America Medical Affairs team to support Crysvita launch

Formed Global Medical Affairs organization with leaders hired for Patient Diagnosis, Molecular Diagnostics and DMP Program

Furthered development of HEOR/medical information and patient advocacy

Advanced cross-functional development team alignment, including integration of Ultragenyx Gene Therapy members

Provided leadership to the Commercial, Technical Operations and Business Development teams during the fourth fiscal quarter of 2018

Buildout of high-quality legal group

General Counsel and EVP

Support for commercial launch of products globally

Improved contract systems and processes

Support for licensing and business development transactions

Integrated Ultragenyx Gene Therapy legal function and contracts

Initiated an active government affairs function

Implementation of corporate compliance program Dr. Kakkis evaluated the performance of Ms. Sharp, Dr. Bedrosian, Dr. Hogenhuis, and Ms. Parschauer after considering the above achievements and provided a proposed bonus amount for each such officer to the Compensation Committee in light of such officer s achievements during 2018.

33

Achievement of Goals and Relationship to Compensation Awarded

The overall 100% achievement score for the 2018 corporate goals, combined with Dr. Kakkis assessment of the individual performance and achievement of Ms. Sharp, Dr. Bedrosian, Dr. Hogenhuis, and Ms. Parschauer during fiscal 2018, resulted in the Compensation Committee approving bonus awards for performance in 2018 as set forth in the following table:

Name	Title	 tal Fiscal 18 Bonus	Corporate Component Score (Weighting 75%; 100% for CEO)	Individual Component Score (Weighting 25%)
Emil D. Kakkis, M.D., Ph.D.	President and Chief			
	Executive Officer	\$ 428,400	100%	N/A
Shalini Sharp	Chief Financial Officer			
	and Executive Vice			
	President	\$ 198,695	100%	120%
Camille L. Bedrosian, M.D.(1)	Chief Medical Officer			
	and Executive Vice			
	President	\$ 189,274	100%	110%
Wladimir Hogenhuis, M.D. (1)	Chief Operating Officer	\$ 67,021	100%	100%
Karah Parschauer	General Counsel and			
	Executive Vice President	\$ 175,940	100%	110%

(1) Dr. Bedrosian s and Dr. Hogenhuis 2018 bonuses were pro-rated based on their length of service during fiscal 2018.

The bonuses awarded under our 2018 annual incentive program were paid in March 2019.

Equity Compensation

Overview

Stock Options and Restricted Stock Units. As an additional component of our compensation program, executive officers are eligible to receive equity compensation in the form of stock options and/or restricted stock units. The Compensation Committee grants stock options and restricted stock units annually to executive officers to recognize their contributions to the achievement of corporate objectives, to align their interests with those of our stockholders by creating value tied to the performance of our stock price, and for retention purposes. In determining the form and value of an annual grant, the Compensation Committee considers the contributions and responsibilities of each executive officer, appropriate incentives for the achievement of our long-term growth, the size and value of grants made to other executives at peer companies holding comparable positions, individual achievement of designated performance goals, and our overall performance relative to corporate objectives. The Compensation Committee also grants stock options and restricted stock units to new executive officer hires. In determining the form and value of a new hire grant to executive officers, the Compensation Committee considers the expected contributions and responsibilities of each executive officer, appropriate incentives for the achievement of our long-term growth, the size

and value of grants made to other new hire executives at peer companies holding comparable positions, and the competitive market dynamics at the time of hire.

Under the terms of our 2014 Incentive Plan, pursuant to which all equity grants are currently made, the exercise price of any stock options awarded must be equal to at least 100% of the fair market value of our common stock (the closing sales price on The Nasdaq Global Select Market) on the date of grant. We do not have any program, plan or obligation that requires us to grant equity awards on specified dates, although we make annual equity grants in or around March of each year to allow management and the Compensation Committee to review all elements of compensation at the same point in the year. We also do not have any program, plan or practice to time award dates of stock option grants to our executive officers in coordination with the release of

material nonpublic information. Equity awards may occasionally be granted following a significant change in job responsibilities or to meet special retention or performance objectives.

Authority to make equity grants to executive officers rests with the Compensation Committee. Recommendations for equity grant guidelines are made by Radford based on grant values for similarly situated executive positions in our peer group companies and accounting for dilution constraints. Our CEO recommends grants for individual executives within those guidelines. The Compensation Committee then reviews and considers our CEO s recommendation and approves the final grant amounts.

We believe that annual equity awards serve as a useful performance recognition mechanism, encouraging the retention of executive officers by maintaining their focus on our long-term performance, as well as on the achievement of specific performance goals. Our typical option awards to executive officers (including our named executive officers) have a term of 10 years and vest and become exercisable over a period of four years, with 25% of the underlying shares vesting on the first anniversary of the grant date and the remainder monthly over the next three years. Our typical restricted stock unit awards to executive officers (including our named executive officers) vest and become exercisable over a period of four years, with 25% of the underlying shares vesting on each anniversary of the grant date.

In addition to the new hire and annual equity awards described above, the Compensation Committee considers grants of other equity awards, as needed, to align business strategy with our compensation practices.

Time-Based Equity Grants in Fiscal 2018

Effective March 1, 2018, the Compensation Committee approved annual equity awards for our named executive officers other than Drs. Bedrosian and Hogenhuis, each of whom received an initial equity award in connection with commencement of employment. These annual equity awards were granted as a mix of stock options and restricted stock units at a 75% to 25% ratio, which approximated the 50th percentile of our 2018 peer group and allowed us to align with the market direction of including RSUs in annual grants to remain competitive while maintaining an emphasis on pay and performance that naturally results from stock options. For the 2018 fiscal year, the Compensation Committee reviewed proposed annual equity awards for our named executive officers at both the 50th percentile and the 75th percentile of our 2018 peer group, based on grant value. In recognition of corporate and individual performance, our Chief Executive Officer recommended equity grants between the 50th and 75th percentiles based on Radford s recommendations using long-term incentive and equity compensation market data from our 2018 peer group.

For the new hire awards made to Drs. Bedrosian and Hogenhuis, the Compensation Committee applied a 1.75x multiplier to the value of our annual grants based on market practice of new hire awards generally representing 1.5x to 2.0x the value of annual equity grants.

The table below sets forth all annual and new hire time-based equity awards granted in fiscal 2018 to our named executive officers. For Dr. Kakkis, Ms. Sharp, and Ms. Parschauer, these awards represent annual equity awards; for Drs. Bedrosian and Hogenhuis these awards represent new hire equity awards.

Number of Number of Number of Potential Name

Name

Number of Options Stock Units

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Emil D. Kakkis, M.D., Ph.D.	March 1, 2018	94,500	19,500
Shalini Sharp	March 1, 2018	35,000	7,000
Camille L. Bedrosian, M.D.	January 30, 2018	88,000	18,000
Wladimir Hogenhuis, M.D.	October 4, 2018	75,000	15,000
Karah Parschauer	March 1, 2018	37,000	7,500

Performance-Based Equity Grants in Fiscal 2018

In December 2017, the Compensation Committee approved performance stock unit awards (PSUs) for all employees who were eligible to receive equity awards, including new employees to be hired before June 30, 2018, The Compensation Committee approved these PSUs, after consulting with Radford, in order to directly link the Company s sustainable operating performance to long-term incentives.

The metrics applicable to the PSUs are:

Approval and launch in the US of a broad label (for 1 year old and up and no disease restrictions) for Crysvita in 2018 (Metric 1);

New drug application (NDA) or marketing authorization application (MAA) submission or a new commercial product in a major market, in either case, by the end of 2019 (Metric 2); and

First 12 months of US commercial net sales of Crysvita following approval and launch exceeding forecast by 35% (to be achieved by no later than the end of 2019) (Metric 3). The 12-month measurement period will end on April 30, 2019 based on timing of the approval and launch of Crysvita.

For awards granted to new employees hired between January 1, 2018 and June 30, 2018, the metrics applicable to the PSUs are only Metric 2 and Metric 3.

Once the achievement of a performance metric is certified by the Compensation Committee, 33.3% (or 50% if only two metrics apply) of the performance stock unit awards will convert into time-based restricted stock units, with half of these awards vesting on the first anniversary of the certification date and the other half vesting on the second anniversary of the certification date. The Compensation Committee certified achievement of Metric 1 in April 2018.

Dr. Kakkis, Ms. Sharp, and Ms. Parschauer were granted PSUs in December 2017 (and thus their awards of PSUs appear as compensation for fiscal 2017 in the Summary Compensation Table and previously appeared in the Grants of Plan-Based Awards table in last year s proxy statement). Dr. Bedrosian was granted 2,875 PSUs on January 30, 2018. Dr. Hogenhuis did not qualify for a PSU award because he commenced employment with us after June 30, 2018.

The values of the equity grants awarded to executive officers for the 2018 fiscal year, as well as all compensation actions taken with respect to the named executive officers in fiscal 2018, are reflected in the Summary Compensation Table.

Changes for Fiscal 2019

Peer Group

The Compensation Committee reviews our list of peer companies annually to determine if revisions are needed to reflect changes in our development status, market capitalization, changes in individual peer companies, and other factors. The Compensation Committee engaged Radford to assist in reviewing our 2018 peer group and in suggesting revisions, as appropriate.

Based on Radford s assessment and recommendations, the Compensation Committee selected 20 publicly traded companies in the pharmaceutical and biotechnology industries to serve as our new list of peer companies for 2019, referred to as our 2019 peer group, by balancing the following criteria:

companies with recently filed NDAs or early commercial organizations;

36

companies with comparable market capitalizations (i.e., in the range of \$750 million to \$7.5 billion);

companies with revenue less than \$150 million; and

companies with headcounts between 300 and 1,200.

Our 2019 peer group is comprised of the following 20 companies in the pharmaceutical and biotechnology industries:

ACADIA Pharmaceuticals Inc. FibroGen, Inc. Radius Health

Agios Pharmaceuticals, Inc. Halozyme Therapeutics, Inc. Sage Therapeutics

Amicus Therapeutics Intercept Pharmaceuticals, Inc. Sarepta Therapeutics, Inc.

Array BioPharma Ionis Pharmaceuticals, Inc. Spark Therapeutics, Inc.

bluebird bio, Inc. Neurocrine Biosciences, Inc. TESARO, Inc.

Clovis Oncology, Inc. Portola Pharmaceuticals, Inc. Theravance Biopharma, Inc.

Exelixis Inc. Puma Biotechnology, Inc.

We believe that the compensation practices of our 2019 peer group provided us with appropriate compensation benchmarks for evaluating the compensation of our named executive officers for 2019.

Base Salaries

For 2019, increases in base salaries for our named executive officers, after accounting for the 2018 mid-year increase in salaries for some of our executive officers, were approximately 3% annualized. The overall 2019 merit budget was based on a Radford trend report regarding projected market merit spends for 2019. Individual increases in base salaries were based on achievement of 2018 individual goals.

Annual Bonuses

For 2019, the Compensation Committee determined to increase the targets for 2019 bonuses to 70% for our Chief Executive Officer and to 45% for all other executive officers, except our Chief Operating Officer, to align the bonus opportunity more closely with the 50th percentile of the 2019 peer group. The target bonus for our Chief Operating Officer remains at 50%.

Equity Compensation

We expect to make our annual equity grants in or around March of each year to allow management and the Compensation Committee to review all elements of compensation at one point in the year. For 2019, equity grants to our executive officers reflected a 50/25/25 value split among options, RSUs, and PSUs, respectively

Employee Benefit Program

Executive officers are eligible to participate in all of our employee benefit plans, including medical, dental, vision, group life, disability, and accidental death and dismemberment insurance. In each case, participation is on the same

basis as other employees, subject to applicable law. We also provide vacation and other paid holidays to all employees, including executive officers, all of which we believe to be comparable to those provided at peer companies. These benefit programs are designed to enable us to attract and retain our workforce in a competitive marketplace. Reliable and competitive health, welfare and vacation benefits ensure that we have a productive and focused workforce.

The retirement savings plan for which our named executive officers are eligible (401(k) Plan) is a tax-qualified retirement savings plan pursuant to which the named executive officers can contribute certain amounts of their annual compensation, subject to limits prescribed by the Internal Revenue Service. We make matching contributions of up to 100% of the first 3% of eligible compensation contributed to the plan. The value of these benefits for each of our named executive officers is reflected in the All Other Compensation column of the Summary Compensation Table. All of our employees are eligible to participate in the 401(k) Plan on the same terms as the named executive officers.

Tax and Accounting Considerations

Deductibility of Executive Compensation. In making compensation decisions affecting our executive officers, the Compensation Committee considers our ability to deduct under applicable federal corporate income tax law compensation payments made to executives. Specifically, the Compensation Committee considers the requirements and impact of Section 162(m) of the Internal Revenue Code, which limits the tax deductibility to us of compensation in excess of \$1.0 million in any year for certain executive officers. For tax years beginning prior to December 31, 2017, there was an exception to this deduction limitation for qualified performance-based compensation as defined under the Section 162(m) rules then in effect. Beginning with 2018, this exception was repealed and the list of executive officers covered by Section 162(m) has been expanded. The Compensation Committee considers the Section 162(m) rules as a factor in determining compensation, but will not necessarily limit compensation to amounts deductible under Section 162(m).

Accounting for Stock-Based Compensation. Under the Accounting Standards Codification, or ASC, Topic 718, we are required to estimate and record an expense at the measurement date for each award of equity compensation over the vesting period of the award. Accounting rules also require us to record cash compensation as an expense at the time the obligation is incurred.

Allocation of Compensation

There is no pre-established policy or target for the allocation of compensation. The factors described above, as well as the overall compensation philosophy, are reviewed to determine the appropriate level and mix of compensation. In fiscal 2018, the largest portion of compensation to each of our named executive officers was in the form of equity compensation.

Timing of Compensation Actions

Cash compensation, including base salary adjustments, for our named executive officers is reviewed annually, usually in the first quarter of the fiscal year and upon promotion or other change in job responsibilities. The effective date of annual merit increases to salary is March 1st. Equity compensation is granted upon the hiring of the named executive officer as well as annually each March (provided that the named executive officer must have been employed by September 30 to receive an annual equity grant).

Clawback Policy

Our Board has adopted a Clawback Policy which permits us to recover up to 100% of any performance -based cash and equity compensation that we pay to our current or former executive officers during the one-year period preceding the date on which we are required to prepare an accounting restatement if the Board determines that an act or omission of such executive officers contributed to the circumstances requiring the restatement and such act or omission involved fraud or intentional misconduct by the officer.

Minimum Stock Ownership Requirements

The Compensation Committee adopted stock ownership guidelines in order to align the long-term interests of our executive officers and directors with those of our stockholders. The guidelines require holding our common stock with value equivalent to 3x the annual retainer for Board members, 3x the base salary for our

38

Chief Executive Officer and 1x the base salary for the other named executive officers. These guidelines are to be achieved by the end of 2021 for current named executive officers and Board members and within five years of appointment for newly appointed named executive officers and Board members.

There are no minimum stock ownership guidelines for our non-named executive officers or employees, although non-named executive officers are encouraged and expected to have a significant direct interest in the value of our common stock through open market purchases and/or receipt of equity awards.

Risk Management and Mitigation

In reviewing the compensation structure in fiscal 2018, the Compensation Committee also considered how our compensation policies may affect our risk profile and how compensation policies may be used to mitigate risks facing us. More specifically, the Compensation Committee considered the general design philosophy of our policies for employees whose conduct would be most affected by incentives established by compensation policies. In considering these issues, the Compensation Committee concluded that the use of performance-based bonuses and long-term equity awards did not appear to create undue risks for us or encourage excessive risk-taking behavior on the part of employees.

With respect to bonus awards, the amount of an individual s award depends principally (exclusively, in the case of our Chief Executive Officer) on our overall performance, which reduces the ability and incentive for an individual to take undue risks in an effort to increase the amount of his or her bonus award for a particular year. For fiscal 2018, our corporate goals were reviewed and approved by the Board in early 2018, upon the recommendation of the Compensation Committee, and are considered to be generally of the nature that would not encourage or reward excessive risk taking. Additionally, the Compensation Committee monitors our performance throughout the year and has the ability to intervene in instances where our actions vis-à-vis our performance goal attainment would be considered unduly risky, so that the Compensation Committee may act to prevent or penalize such actions.

With respect to equity awards, these awards typically vest over several years, meaning that long-term value creation, contrasted with short-term gain, presents the best opportunity for employees to profit from these awards.

Compensation Committee Report

The Compensation Committee has reviewed and discussed with management the Compensation Discussion and Analysis required by Item 402(b) of Regulation S-K. Based on this review and discussion, the Compensation Committee recommended to the Board of Directors that the foregoing Compensation Discussion and Analysis be included in this proxy statement and in our Annual Report on Form 10-K for the fiscal year ended December 31, 2018.

Submitted by the Compensation Committee of the Board of Directors

William Aliski, Chairman

Clay B. Siegall, Ph.D.

Daniel G. Welch

Summary Compensation Table

The following table sets forth the compensation earned during the years ended December 31, 2018, 2017, and 2016 by our Chief Executive Officer, Chief Financial Officer and our next three highest-paid executive officers. We refer to these officers as our named executive officers.

						Non-Equity				
and Duin singl					Stools	Ontion	Incentive		-	
and Principal	X 7	C 1	D (1)		Stock	Option	Plan	Other		
n	Year	•	Bonus ⁽¹⁾		wards ⁽²⁾		-	-		
. Kakkis, M.D., Ph.D.		\$679,952				\$2,753,513				
nt and Chief	2017	\$638,115	\$	\$1	,319,303	\$4,295,234	\$ 393,000	\$ 39,24	7 \$6,6	
ve Officer	2016	\$567,200	\$	\$	755,099	\$ 2,722,360	\$ 340,320	\$ 38,38	33 \$4,42	
Sharp,	2018	\$491,369	\$	\$	339,010	\$1,019,820	\$ 198,695	\$ 32,82	27 \$ 2,0	
inancial Officer	2017	\$455,785	\$	\$	424,043	\$ 1,541,879	\$ 188,315	\$ 32,69)7 \$2,6 ¹	
ecutive Vice President	2016	\$441,000	\$	\$	282,280	\$1,025,693	\$ 185,220	\$ 32,21	.8 \$1,90	
L. Bedrosian, M.D. ⁽⁶⁾	2018	\$442,308	\$210,000	\$	990,000	\$ 2,906,983	\$189,274	\$ 107,72	27 \$4,8	
Medical Officer and Executive Vice President										
nir Hogenhuis, M.D. ⁽⁶⁾	2018	\$110,923	\$ 200,000	\$ 1	,159,500	\$3,504,533	\$ 67,021	\$ 215,82	27 \$ 5,2	
perating Officer and Executive Vice President										
Parschauer	2018	\$ 386,251	\$	\$	363,225	\$1,078,095	\$175,940	\$ 32,81	9 \$2,0	
l Counsel	2017	\$357,310	\$	\$	246,443	\$ 660,805	\$150,070	\$ 19,68	30 \$1,4	
ecutive Vice President	2016	\$ 175,000	\$ 50,000	\$	408,750	\$ 1.971.204	\$ 76,455	\$ 19.50)4 \$ 2.7	

- (1) The amounts reported in this column represent sign-on bonuses. Please see Narrative Disclosure to Summary Compensation Table Employment Arrangements with Our Named Executive Officers.
- (2) The amounts reported in this column for a fiscal year represent the grant date fair value of the restricted stock units and performance stock units granted to our named executive officers during the fiscal year, as computed in accordance with ASC Topic 718, not including any estimates of forfeitures, and, with respect to the performance stock units, assuming the most probable outcome of the performance conditions as of the grant date. The assumptions used in calculating the grant date fair value of the restricted stock units and performance stock units reported in this column are set forth in the notes to our financial statements included in our Annual Report. The amounts reported in this column reflect the accounting cost for these restricted stock units and performance stock units and do not correspond to the actual economic value that may be received by the named executive officers from the restricted stock units and the performance stock units. The value of the performance stock units reported in this column for 2018, assuming that the highest level of performance conditions will be achieved, is as follows: Dr. Bedrosian \$158,125.
- (3) The amounts reported in this column for a fiscal year represent the grant date fair value of the stock options granted to our named executive officers during the fiscal year, as computed in accordance with ASC Topic 718, not including any estimates of forfeitures. The assumptions used in calculating the grant date fair value of the stock options reported in this column are set forth in the notes to our financial statements included in our Annual

Report. 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.

40

- (4) Amounts for a fiscal year represent cash bonuses earned in that fiscal year and paid in the subsequent fiscal year based on achievement of performance goals and other factors deemed relevant by our Compensation Committee.
- (5) Amounts reported in this column for the 2018 fiscal year reflect the following payments to our named executive officers: Dr. Kakkis \$8,250 for 401(k) matching contributions, \$3,375 for health savings account contributions, \$21,202 for medical, dental, vision and life/accidental death & dismemberment premiums paid by us, and \$6,550 for key person life insurance premiums paid by us; Ms. Sharp \$8,250 for 401(k) matching contributions, \$3,375 for health savings account contributions and \$21,202 for medical, dental, vision and life/accidental death & dismemberment premiums paid by us; Dr. Bedrosian \$10,164 for medical, dental, vision and life/accidental death & dismemberment premiums paid by us, and \$97,563 in housing grossup payments; Dr. Hogenhuis \$6,000 for 401(k) matching contributions, \$6,547 for medical, dental, vision and life/accidental death & dismemberment premiums paid by us, and \$203,280 in housing grossup payments; and Ms. Parschauer \$8,250 for 401(k) matching contributions, \$3,375 for health savings account contributions and \$21,194 for life/accidental death & dismemberment premiums paid by us.
- (6) Dr. Bedrosian commenced employment with us in January 2018, and Dr. Hogenhuis commenced employment with us in September 2018.

Narrative Disclosure to Summary Compensation Table

Employment Arrangements with Our Named Executive Officers

Dr. Kakkis, our Chief Executive Officer, is party to an employment agreement with us that provides for base salary. Dr. Kakkis is also eligible for an annual bonus opportunity and to participate in our employee benefit plans, subject to the terms of those plans. Pursuant to the terms of the employment agreement, the employment of Dr. Kakkis is at will; we may terminate his employment at any time, without advance notice, for any reason or for no reason at all, and Dr. Kakkis may terminate his employment at any time, upon four weeks prior written notice, for any reason or for no reason at all.

Each of our other named executive officers is party to an offer letter with us that provides for base salary, an annual bonus opportunity, and an initial grant of equity. They are eligible to participate in our employee benefit plans, subject to the terms of those plans. Pursuant to the terms of the offer letters, their employment is at will and may be terminated either by us or by them, with or without advance notice, for any reason or for no reason at all. The offer letters for Drs. Bedrosian and Hogenhuis provide for reimbursement of relocation expenses and a sign-on bonus of \$210,000 and \$200,000, respectively.

Each of these employment arrangements also contain provisions that provide for certain payments and benefits in the event of an involuntary termination of employment. In addition, the named executive officers may be entitled to accelerated vesting of their outstanding and unvested awards in certain circumstances. The information below describes certain compensation that may become due and payable as a result of certain events.

Involuntary Termination of Employment

Pursuant to their employment arrangements, each named executive officer is eligible to receive certain payments and benefits in the event of certain qualifying terminations, including termination of his or her employment by us without cause (as defined below) or resignation of his or her employment with good reason or because of a constructive termination (each, as defined below). Upon the timely execution of a general release of claims, each named executive

officer is eligible to receive the following payments and benefits:

if Dr. Kakkis is terminated by us other than for cause or because of death or disability, he shall be entitled to receive 24 months of base salary continuation;

41

if Dr. Kakkis resigns his employment with us for good reason following a change in control (as defined below), then he shall be entitled to receive 24 months of base salary continuation; provided, however, that Dr. Kakkis must first provide us written notice of the good reason within six months of the event constituting good reason and a period of 20 days to cure the good reason and we must fail to cure the good reason during such 20-day period; and

if Ms. Sharp, Dr. Hogenhuis, or Ms. Parschauer is terminated by us without cause or resigns employment with us due to a constructive termination, each executive will be entitled to: (i) an extended exercise period applicable to any options then held such that the executive has 12 months from termination to exercise any of the vested shares, provided that in no event shall the exercise period be extended beyond the expiration date of any options then held; and (ii) 12 months of base salary continuation.

if Dr. Bedrosian is terminated by us without cause or resigns employment with us due to a constructive termination, she will be entitled to: (i) accelerated vesting of any equity-based compensation awards granted to her in connection with her employment as if she remained employed by us for an additional twelve (12) months following the date of termination; (ii) an extended exercise period applicable to any options then held such that the executive has 12 months from termination to exercise any of the vested shares, provided that in no event shall the exercise period be extended beyond the expiration date of any options then held; and (iii) 12 months of base salary continuation and a pro-rated annual bonus at the target in effect as of the date of termination.

Covered Transaction

Pursuant to the employment agreement with Dr. Kakkis, as amended, the offer letters with Ms. Sharp, as amended, and the offer letters with Dr. Bedrosian, Dr. Hogenhuis, and Ms. Parschauer, in addition to the severance benefits described above, in the event (i) we consummate a Covered Transaction (as defined in our 2014 Incentive Plan), which includes certain mergers or material asset sales, as well as any dissolution, liquidation, or winding down of the Company, (ii) the executive is employed by us (or our subsidiaries) on the date the Covered Transaction is consummated, and (iii) the executive is terminated by us without cause or resigns employment with us due to a constructive termination (or, in the case of Dr. Kakkis, for good reason) within 12 months (or, 24 months in the case of Dr. Bedrosian, and 18 months in the case of Dr. Hogenhuis) after the consummation of the Covered Transaction, the vesting of all of such executive s outstanding equity awards shall accelerate with respect to 100% of the then-unvested awards.

Definitions

For purposes of Dr. Kakkis employment agreement, cause means his:

commission of a felony or any crime involving dishonesty, breach of trust, or physical harm to any person;

willful engagement in conduct that is in bad faith and materially injurious to us, including but not limited to misappropriation of trade secrets, fraud, or embezzlement;

material breach of his employment agreement that is not cured within 10 days after written notice to him from us; or

willful refusal to implement or follow a lawful policy or directive of ours, which breach is not cured within 10 days after written notice to him from us.

42

For purposes of each of the offer letters with Ms. Sharp and Ms. Parschauer, cause means the named executive officer s:

gross negligence in carrying out, or material failure to carry out, his or her duties for us (including, without limitation, failure to cooperate in any Company investigation), after notice from the Board and a reasonable opportunity to cure (if deemed curable);

breach of his or her fiduciary duties to us, after notice from the Board and a reasonable opportunity to cure (if deemed curable);

conviction of, or plea of guilty or no contest to, any felony;

act of fraud or embezzlement with respect to his or her obligations to us or otherwise relating to our business;

material violation of any of our policies;

material breach of any agreement entered into with us; or

unauthorized use or disclosure of confidential information or trade secrets of ours or of our affiliates. For purposes of the offer letter with Dr. Bedrosian, cause means her:

commission of a felony or any crime involving dishonesty, breach of trust, or physical harm to any person;

willful engagement in conduct that is in bad faith and materially injurious to us, including but not limited to misappropriation of trade secrets, fraud, or embezzlement;

material breach of any agreement with us that is not cured within 10 days of written notice by us to her; or

willful refusal to implement or follow a lawful policy or directive of ours, which breach is not cured within 10 days after written notice by us to her.

For purposes of the offer letter with Dr. Hogenhuis, cause means his:

willful engagement in conduct that is materially injurious to us, or otherwise in breach of his fiduciary duties to us, after notice from the Board and a reasonable opportunity to cure of no less than thirty (30) days (if reasonably curable);

conviction of, or plea of guilty or no contest to, any felony;

act of fraud or embezzlement with respect to his obligations or otherwise relating to our business;

willful refusal to implement or follow a lawful policy or directive (including without limitation, his failure to cooperate in any investigation by us) after notice from the Board and a reasonable opportunity to cure of no less than thirty (30) days (if reasonably curable);

material breach of any agreement entered into between him and us; or

43

unauthorized use or disclosure of confidential information or trade secrets of ours or of our affiliates. For purposes of Dr. Kakkis employment agreement, good reason means any of the following events if (i) we effect the event without the consent of Dr. Kakkis and (ii) such event occurs after a change in control:

a change in his position with us that materially reduces his level of responsibility;

a material reduction in his base salary, except for reductions that are comparable to reductions generally applicable to similarly situated executives of ours; or

a relocation of his principal place of employment by more than 50 miles.

For purposes of Dr. Kakkis employment agreement, change in control means a change in ownership or control of us effected through a merger, consolidation, or acquisition by any person or related group of persons (other than an acquisition by us or by an employee benefit plan sponsored by us or by a person or persons that directly or indirectly control, is controlled by, or is under common control with, us) of beneficial ownership of securities possessing more than 50% of the total combined voting power of our outstanding securities.

For purposes of each of the offer letters with Ms. Sharp and Ms. Parschauer, constructive termination means the occurrence of any of the following events without the named executive officer s consent if (i) the executive provides us with written objection (or notice) to the event or condition within 30 days following the occurrence of the event or condition, (ii) we do not reverse or otherwise cure the event or condition within 30 days of receiving such written objection, and (iii) the executive resigns his or her employment with us within 30 days following the expiration of that cure period:

a material reduction or change in the executive s job duties, responsibilities and requirements from the executive s job duties, responsibilities and requirements immediately prior to such reduction or change, taking into account the differences in job title and duties that are normally occasioned by reason of an acquisition of one company by another;

a material reduction of the executive s base salary (other than an equal, across-the-board reduction in the compensation of all similarly-situated employees of ours or the surviving entity that is approved by the Board); or

a requirement that the executive relocate to a principal office that increases his or her one-way commute by more than 50 miles relative to the executive s immediately preceding principal office. For purposes of the offer letter with Dr. Bedrosian, constructive termination means the occurrence of any of the following events without her consent if (i) she provides us with written objection (or notice) to the event or condition within 90 days following the occurrence of the event or condition, (ii) we do not reverse or otherwise cure the event or condition within 30 days of receiving such written objection, and (iii) she resigns her employment with us within 30 days following the expiration of that cure period:

a material reduction or change in her job duties, responsibilities, authority or requirements from her job duties, responsibilities, authority or requirements immediately prior to such reduction or change;

a material reduction of her base salary (other than an equal, across-the-board reduction in the compensation of all similarly-situated employees of ours or the surviving entity that is approved by the Board);

44

a requirement that she relocate to a principal office that increases her one-way commute by more than 50 miles relative to her immediately preceding principal office; or

a material breach of her offer letter agreement (including the failure to grant the new hire equity set forth in her offer letter within 30 days of her hire date) or any other agreement between her and us. For purposes of the offer letter with Dr. Hogenhuis, constructive termination means the occurrence of any of the following events without his consent if (i) he provides us with written objection (or notice) to the event or condition within 30 days following the occurrence of the event or condition, (ii) we do not reverse or otherwise cure the event or condition within 30 days of receiving such written objection, and (iii) he resigns his employment with us within 30 days following the expiration of that cure period:

a material reduction or change in his job duties, responsibilities and requirements from his job duties, responsibilities and requirements immediately prior to such reduction or change, taking into account the differences in job title and duties that are normally occasioned by reason of an acquisition of one company by another;

a material reduction of his base salary (other than an equal, across-the-board reduction in the compensation of all similarly-situated employees of ours or the surviving entity that is approved by the Board); or

a requirement that he relocate to a principal office that increases his one-way commute by more than 50 miles relative to his immediately preceding principal office.

45

Grants of Plan-Based Awards

The following table sets forth certain information regarding grants of plan-based awards to the named executive officers during fiscal 2018.

Name] Grant Date	Under No	iture Payout on-Equity Plan Awards! Maximum (\$)(2)	Incentive		Option Awards: Number of Securities Underlying Options Granted (#)	Exercise Price of Option Awards (\$/Share)	Grant Date Fair Value of Stock and Option Awards (\$)(5)
Emil D. Kakkis, M.D., Ph.D.	3/1/2018 3/1/2018	428,400	642,600		19,500	94,500	48.43	2,753,513 944,385
Shalini Sharp	3/1/2018 3/1/2018	189,234	269,658		7,000	35,000	48.43	1,019,820 339,010
Camille L. Bedrosian, M.D.(6)	1/30/2018 1/30/2018 1/30/2018	200,000	285,000	2,875	18,000	88,000	55.00	2,906,983 990,000
Wladimir Hogenhuis, M.D. (6)	10/4/2018 10/4/2018	257,500	366,938		15,000	75,000	77.30	3,504,533 1,159,500
Karah Parschauer	3/1/2018 3/1/2018	171,649	244,600		7,500	37,000	48.43	1,078,095 363,225

⁽¹⁾ The amount represents the target amount of each named executive officer s cash payments under our 2018 annual incentive program as established by the Board and described in Compensation Discussion and Analysis above. Actual payments made for fiscal 2018 are provided in the Summary Compensation Table.

(2)

The amount represents the maximum amount of each named executive officer s cash payments under our 2018 annual incentive program as established by the Board and described in Compensation Discussion and Analysis above. Actual payments made for fiscal 2018 are provided in the Summary Compensation Table.

- (3) The amount represents the performance stock units granted under our 2014 Incentive Plan.
- (4) The amounts represent the restricted stock units granted under our 2014 Incentive Plan.
- (5) This column reflects the aggregate grant date fair value of equity awards granted in 2018 as computed in accordance with ASC Topic 718, not including any estimates of forfeitures. The assumptions used in calculating the grant date fair value of the stock and option awards reported in this column are set forth in the notes to our financial statements included in our Annual Report.

46

(6) Estimated future payouts under non-equity incentive plan awards reported for Drs. Bedrosian and Hogenhuis have not been prorated to reflect that they commenced employment with us after January 1, 2018.

Outstanding Equity Awards at December 31, 2018

The following table sets forth information concerning the outstanding equity awards held by each of the named executive officers as of December 31, 2018.

		Number of Securities Underlyin Unexercis Options (#)	Number of Securities Inderlying	g d Option		Have Not	PI I	an Award Number of Unearned Shares, Units or Other Rights	Equity Incentive Ran Awards: fMarket or Payout Value of Unearned Shares, Units or Other Rights That Have Not
Name		Exercisable	. ,		Date(1)	(#)(2)	(\$)	(#)(3)	(\$)
Emil D.	Date	L'ACI CISARII	icaci cisab	L effee (ψ)	Date(1)	(11)(2)	(Ψ)	(11)(3)	(Ψ)
Kakkis, M.D.,									
Ph.D.	3/1/2018	3	94,500	48.43	3/1/2028	19,500	847,860		
	12/22/2017		,			3,430	149,136	6,870	298,708
	3/1/2017	34,125	43,875	88.80	3/1/2027	9,750	423,930		
	6/1/2016	39,812	23,888	70.57	6/1/2026	5,350	232,618		
	5/21/2015	61,185	7,115	84.89	5/21/2025	2,850	123,918		
	11/1/2013	3 47,853		6.86	11/1/2023				
Shalini Sharp	3/1/2018	3	35,000	48.43	3/1/2028	7,000	304,360		
	12/22/2017	7				1,432	62,263	2,868	124,701
	3/1/2017	12,250	15,750	88.80	3/1/2027	3,000	130,440		
	6/1/2016	5 15,000	9,000	70.57	6/1/2026	2,000	86,960		
	5/21/2015	23,560	2,740	84.89	5/21/2025	1,100	47,828		
	11/1/2013			6.86	11/1/2023				
	8/2/2012	2 6,963		0.81	8/2/2022				
Camille L. Bedrosian,	1/20/2016		00.000	55.00	1/20/2020	10,000	702 (40	2.075	105.005
M.D.	1/30/2018	S	88,000	55.00	1/30/2028	18,000	782,640	2,875	125,005
Wladimir Hogenhuis,	10/4/2018)	75,000	77.20	10/4/2029	15 000	652 200		
M.D.	10/4/2018)	73,000	77.30	10/4/2028	15,000	652,200		
Karah Parschauer	3/1/2018	3	37,000	48.43	3/1/2028	7,500	326,100		

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12/22/2017					1,432	62,263	2,868	124,701
3/1/2017	5,250	6,750	88.80	3/1/2027	1,500	65,220		
6/20/2016	32,500	22,500	54.50	6/20/2026	3,750	163,050		

- (1) The option vests with respect to 1/4th of the shares underlying the option on the one-year anniversary of the grant date, and with respect to 1/48th of the shares underlying the option, on each monthly anniversary thereafter, subject to the holder s continued service to us through each such vesting date. Please see the section entitled Narrative Disclosure to Summary Compensation Table Covered Transaction for accelerated vesting provisions that apply on certain terminations of employment.
- (2) The restricted stock units vest with respect to 1/4th of the underlying shares on each anniversary of the grant date over a four-year period; provided, however, that half of the restricted stock units listed in the

47

December 22, 2017 row will vest on April 19, 2019 and the remaining half will vest on April 19, 2020. Please see the section entitled Narrative Disclosure to Summary Compensation Table Covered Transaction for accelerated vesting provisions that apply on certain terminations of employment.

(3) The performance stock units vest as described above under Compensation Discussion and Analysis Equity Compensation Performance-Based Equity Grants in Fiscal 2018. Please see the section entitled Narrative Disclosure to Summary Compensation Table Covered Transaction for accelerated vesting provisions that apply on certain terminations of employment.

Option Exercises and Stock Vested

The following table sets forth certain information concerning the option awards exercised and stock awards vested for our named executive officers during fiscal 2018.

	Option .	Awards	Stock A Number	Awards	
Name and Principal Position	Number of Shares Acquired on Exercise (#)	Value Realized on Exercise (\$)(1)	of Shares Acquired on Vesting (#)	Value Realized on Vesting (\$)(2)	
Emil D. Kakkis, M.D., Ph.D., President and Chief Executive					
Officer			8,775	539,277	
Shalini Sharp, Chief Financial Officer and Executive Vice President	25,200	1,601,684	3,100	193,429	
Camille L. Bedrosian, M.D., Chief Medical Officer and Executive Vice President					
Wladimir Hogenhuis, M.D., Chief Operating Officer					
Karah Parschauer, General Counsel and Executive Vice					
President	5,000	122,000	2,375	184,171	

- (1) Value realized 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 The Nasdaq Global Select Market on each exercise date.
- (2) Value realized is equal to the closing price of our common stock on The Nasdaq Global Select Market on each vesting date multiplied by the number of stock awards that vested.

Pension Benefits

We do not have a defined benefit plan. Our named executive officers did not participate in, or otherwise receive any special benefits under, any pension or defined benefit retirement plan sponsored by us during fiscal 2018.

Nonqualified Deferred Compensation

During fiscal 2018, our named executive officers did not contribute to, or earn any amount with respect to, any defined contribution or other plan sponsored by us that provides for the deferral of compensation on a basis that is not tax-qualified.

48

Potential Payments 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, restricted stock unit, and performance stock unit 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, 2018. The closing price of our common stock on The Nasdaq Global Select Market as of December 31, 2018, the last trading day of 2018, was \$43.48, which was used as the value of our common 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, 2018 by the difference between the closing price of our common stock as of December 31, 2018 and the exercise price for such unvested option shares. No value is attributed to unvested options subject to acceleration which have exercise prices above the closing market price of our common stock as of December 31, 2018. The value of the restricted stock unit and performance stock unit vesting acceleration was calculated by multiplying the number of unvested restricted stock units and performance stock units subject to vesting acceleration as of December 31, 2018 by the closing price of our common stock as of December 31, 2018.

Dr. Emil Kakkis

The following table describes the potential payments upon employment termination for Emil Kakkis, our President and Chief Executive Officer, as if his employment terminated as of December 31, 2018, the last business day of the fiscal year.

Potential Payments Upon Termination or Change of Control Base Salary	Termination by Company without Cause \$ 1,428,000	Termination by Company Upon Death or Disability \$ 1,428,000	Resignation for Good Reason following a Change in Control \$ 1,428,000	Termination by Company without Cause following a Covered Transaction \$ 1,428,000	Resignation for Good Reason following a Covered Transaction
Acceleration of equity awards	\$ 1.428.000	\$ 1.428.000	\$ 1,428,000	2,076,170 \$ 3,504,170	2,076,170 \$ 2,076,170
Total	\$ 1,428,000	\$ 1,428,000	\$ 1,420,000	\$ 3,304,170	\$ 2,070,170

Ms. Shalini Sharp

The following table describes the potential payments upon employment termination for Shalini Sharp, our Chief Financial Officer and Executive Vice President, as if her employment terminated as of December 31, 2018, the last business day of the fiscal year.

Potential Payments Upon Termination or Change of	Termination by Company	Resignation due to a	Termination by Company without Cause or
Control	without Cause	Constructive	resignation due to a
		Termination	Constructive
			Termination following

			a
			Covered ransaction
Base Salary	\$ 473,084	\$ 473,084	\$ 473,084
Acceleration of equity awards			756,552
Total	\$ 473,084	\$ 473,084	\$ 1,229,636

Dr. Camille L. Bedrosian

The following table describes the potential payments upon employment termination for Camille Bedrosian, our Chief Medical Officer and Executive Vice President, as if her employment terminated as of December 31, 2018, the last business day of the fiscal year.

Potential Payments Upon Termination or Change of		Termination by Company		Resignation due to a Constructive		without Cause or resignation due to a Constructive Termination following a Covered		
Control	with	out Cause	Tei	rmination	\mathbf{T}	ransaction		
Base Salary	\$	500,000	\$	500,000	\$	500,000		
Bonus		200,000		200,000		200,000		
Acceleration of equity awards		195,660		195,660	\$	907,645		
Total	\$	895,660	\$	895,660	\$	1,607,645		

Termination by Company

Dr. Wladimir Hogenhuis

The following table describes the potential payments upon employment termination for Wladimir Hogenhuis, our Chief Operating Officer, as if his employment terminated as of December 31, 2018, the last business day of the fiscal year.

				Termination by Company without Cause or			
					resignation due to a Constructive		
				signation	Termination following		
Potential Payments Upon	Termination		due to a		a		
Termination or Change of	by	Company	Constructive		Covered		
Control	with	out Cause	Termination		Transaction		
Base Salary	\$	515,000	\$	515,000	\$	515,000	
Acceleration of equity awards					\$	652,200	
Total	\$	515,000	\$	515,000	\$	1,167,200	

Ms. Karah Parschauer

The following table describes the potential payments upon employment termination for Karah Parschauer, our General Counsel and Executive Vice President, as if her employment terminated as of December 31, 2018, the last business day of the fiscal year.

Potential Payments Upon Termination or Change of	Terminal by Comp	ion any (Resignation due to a Constructive	Termination by Company without Cause or resignation due to a Constructive Termination following a		
Control	without C		Termination	Covere	ed Transaction	
Base Salary	\$ 429,	122	\$ 429,122	\$	429,122	
Acceleration of equity awards				\$	741,334	
Total	\$ 429,	122	\$ 429,122	\$	1,170,456	

EQUITY COMPENSATION PLAN INFORMATION

The table below discloses information as of December 31, 2018 with respect to our equity compensation plans that have been approved by stockholders and equity compensation plans that have not been approved by stockholders.

				Number of Securities Remaining
	Number of		Veighted-	Available for
	Issued upon	sFuture Issuance under Equity		
	Exercise of Outstanding Options, Warrants and	U		Compensation Plans (Excluding Securities Reflected in
Plan Category	Rights(a)		Rights	Column (a))
Equity compensation plans approved by security holders:				
2011 Equity Incentive Plan, as amended	526,937	\$	6.01	
2014 Incentive Plan	6,091,718	\$	69.99	2,055,589
2014 Employee Stock Purchase Plan				2,211,075
Equity compensation plans not approved by security holders ⁽¹⁾				
Dimension Therapeutics, Inc. 2015 Stock				
Option and Incentive Plan	109,112	\$	36.62	
Dimension Therapeutics, Inc. 2013 Stock Plan	62,634	\$	22.70	
Total	6,790,401	\$	62.46	4,266,664

(1) In connection with our acquisition of Dimension Therapeutics, Inc. on November 7, 2017, we assumed these plans and outstanding option awards thereunder (whether or not then vested or exercisable). The assumed awards continue to have, and are subject to, the same terms and conditions as were applicable prior to the acquisition as set forth in the applicable plan (including any applicable award agreement, other agreement or other document evidencing such awards), except that the awards are exercisable for shares of our common stock with exercise prices adjusted to reflect the terms of the acquisition, all as set forth in the merger agreement. No new awards can be made under these plans.

DIRECTOR COMPENSATION

Our Board has adopted a non-employee director compensation policy that is designed to provide a total compensation package that enables us to attract and retain, on a long-term basis, high caliber non-employee directors. A Board of Director Compensation Review prepared by Radford in December 2017 provided a competitive assessment of our compensation practices for non-employee directors in connection with the Compensation Committee s evaluation of the level of compensation for our non-employee directors for 2018. The assessment found that the cash compensation levels for non-employee directors was positioned at the 50th percentile as compared to our 2018 peer group and that our equity compensation levels for non-employee directors was positioned below the 25th percentile as compared to

our 2018 peer group. For cash compensation, the Compensation Committee made no change to the annual retainers, which continues to keep the cash compensation at the 50th percentile of our 2018 peer group. In order to better align director equity compensation with that of our 2018 peer group, the Compensation Committee increased the initial appointment award to 20,000 options and the annual awards to 5,000 options and 3,000 RSUs, which nevertheless positioned the equity compensation below the 25th percentile of our 2018 peer group.

51

A summary of the non-employee director compensation arrangements for fiscal 2018 is set forth below:

	Annual Retainer
Board of Directors:	Retuillet
Chairman	\$ 80,000
Non-Chairman members	\$ 50,000
Audit Committee:	
Chairman	\$ 20,000
Non-Chairman members	\$ 10,000
Compensation Committee:	
Chairman	\$ 15,000
Non-Chairman members	\$ 7,500
Nominating and Corporate Governance Committee:	
Chairman	\$ 10,000
Non-Chairman members	\$ 5,000
Research and Development Committee:	
Chairman	\$ 12,000
Non-Chairman members	\$ 6,000

Under the non-employee director compensation policy for fiscal 2018, each non-employee director who is initially appointed or elected to the Board receives an option grant to purchase up to 20,000 shares of our common stock under our stock option plan on the date he or she first becomes a non-employee director, which will vest monthly over a three-year period, subject to the holder s continued service to us through each such vesting date. In addition, on the date of the annual meeting of stockholders, each continuing non-employee director is eligible to receive an annual option grant to purchase up to 5,000 shares of our common stock and an annual grant of 3,000 restricted stock units, each of which will vest in full upon the earlier of (a) our subsequent annual meeting of stockholders and (b) the first anniversary of the date of grant, subject to the holder s continued service to us through such vesting date. All of the foregoing options and restricted stock units are granted at fair market value as of the date of grant.

Dr. Kakkis, our President and Chief Executive Officer, receives no compensation for his service as a director. Dr. Suliman was appointed to our Board in January 2019. As such, while she is entitled to receive compensation for her services under our non-employee director compensation policy, her compensation is not reflected in the 2018 director compensation table below.

The following table shows the compensation earned in fiscal 2018 by our non-employee directors.

	Fees Earned in			
Name	Fiscal 2018	Stock Awards ⁽¹⁾	Option Awards ⁽²⁾	Total
Daniel G. Welch	\$ 92,500	\$ 242,070	\$ 228,612	\$ 563,182
William Aliski	75,000	242,070	228,612	545,682
Deborah Dunsire, M.D.	56,000	242,070	228,612	526,682
Lars Ekman, M.D., Ph.D.	62,000	242,070	228,612	532,682

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Matthew K. Fust	80,000	242,070	228,612	550,682
Michael Narachi	65,000	242,070	228,612	535,682
Clay B. Siegall, Ph.D.	63,500	242,070	228,612	534,182

Shehnaaz Suliman, M.D.

(1) The amounts reported in this column for a fiscal year represent the grant date fair value of the restricted stock units granted to our non-employee directors during the fiscal year, as computed in accordance with

ASC Topic 718, not including any estimates of forfeitures. The assumptions used in calculating the grant date fair value of the restricted stock units reported in this column are set forth in the notes to our financial statements included in our Annual Report. The amounts reported in this column reflect the accounting cost for these restricted stock units, and do not correspond to the actual economic value that may be received by the non-employee directors from the restricted stock units. As of December 31, 2018, our non-employee directors had the following outstanding restricted stock units: Mr. Welch 3,000; Mr. Aliski 3,000; Dr. Dunsire 3,000; Dr. Ekman 3,000; Mr. Fust 3,000; Mr. Narachi 3,000; Dr. Siegall 3,000; and Dr. Suliman 0.

(2) The amounts reported in this column represent the grant date fair value of the stock options granted to our non-employee directors during fiscal 2018, as computed in accordance with ASC Topic 718, not including any estimates of forfeitures. The assumptions used in calculating the grant date fair value of the stock options reported in this column are set forth in the notes to our financial statements included in our Annual Report. 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 non-employee directors from the options. As of December 31, 2018, our non-employee directors had the following outstanding options: Mr. Welch 37,500; Mr. Aliski 27,500; Dr. Dunsire 23,750; Dr. Ekman 27,500; Mr. Fust 38,681; Mr. Narachi 37,500; Dr. Siegall 45,000; and Dr. Suliman 0.

CEO PAY RATIO

We are required by SEC rules adopted under the Dodd-Frank Act to disclose the ratio of our median employee s annual total compensation to the annual total compensation of our principal executive officer. This disclosure provides a measure of the equitability of pay within our company. We believe our compensation philosophy and process yield an equitable result for all of our employees. For 2018, the annual total compensation for Dr. Emil Kakkis, our Chief Executive Officer and President, was \$4,845,627, and for our median employee was \$288,026, resulting in a pay ratio of 17:1.

In accordance with Item 402(u) of Regulation S-K, we identified the median employee by (i) aggregating for each applicable employee (A) base salary for 2018 on the calculation date, (B) the target bonus for 2018, and (C) the accounting value of any equity awards granted during 2018, and (ii) ranking this annual compensation measure for our employees from lowest to highest. This calculation encompasses individuals, excluding our CEO, employed by us on October 1, 2018, whether employed on a full-time, part-time, or seasonal basis. For any permanent employees who were only employed for part of the 2018 fiscal year, we annualized their compensation to present a more accurate representation of their comparative annual compensation. On October 1, 2018, we had 593 employees.

OTHER BUSINESS

We know of no other matters to be submitted to a vote of stockholders at the Annual Meeting. If any other matter is properly brought before the Annual Meeting or any adjournment thereof, it is the intention of the persons named in the enclosed proxy to vote the shares they represent in accordance with their judgment. In order for any stockholder to nominate a candidate or to submit a proposal for other business to be acted upon at a given annual meeting, he or she must provide timely written notice to our corporate Secretary in the form prescribed by our bylaws, as described below.

STOCKHOLDER PROPOSALS

Stockholder proposals intended to be included in the proxy statement for the 2020 annual meeting of stockholders pursuant to SEC Rule 14a-8 must be received by our corporate Secretary no later than the close of business on December 24, 2019. In order to be considered for inclusion in our proxy statement, these proposals must satisfy the requirements of SEC Rule 14a-8.

Our bylaws also establish advance notice procedures with respect to proposals and director nominations submitted by a stockholder for presentation directly at an annual meeting, rather than for inclusion in our proxy statement. To be properly brought before the 2020 annual meeting of stockholders, stockholders who intend to present a stockholder proposal or director nomination at the meeting must deliver written notice of the proposal or nomination to our corporate Secretary between 90 and 120 days prior to the one-year anniversary date of the 2019 annual meeting (that is, between February 12, 2020 and March 13, 2020); *provided, however*, that if the 2020 annual meeting date is advanced by more than 30 days before or delayed by more than 60 days after the anniversary date of the 2019 annual meeting, then such notice must be received on or before 10 days after the day on which the date of the 2020 annual meeting is first disclosed in a public announcement. Notice of any such stockholder proposals and director nominations must satisfy the requirements set forth in our bylaws. Proposals not meeting the requirements set forth in our bylaws will not be entertained at the Annual Meeting. If a stockholder fails to meet these deadlines or fails to satisfy the requirements of SEC Rule 14a-4, the persons named in the enclosed proxy will be allowed to use their discretionary voting authority to vote on any such proposal or nomination as they determine appropriate if and when the matter is raised at the Annual Meeting.

All notices of proposals or nominations, as applicable, must be addressed to our corporate Secretary at 60 Leveroni Court, Novato, California 94949.

DELIVERY OF PROXY MATERIALS

Our annual report to stockholders for the fiscal year ended December 31, 2018, including audited financial statements, accompanies this Proxy Statement. Copies of our Annual Report and the exhibits thereto are available from us without charge upon written request of a stockholder to our investor relations department at 60 Leveroni Court, Novato, California 94949. Copies of these materials are also available online through the SEC at www.sec.gov. We may satisfy SEC rules regarding delivery of proxy materials, including the proxy statement and annual report or Notice, as applicable, by delivering a single proxy statement and annual report or a single Notice, as applicable, to an address shared by two or more of our stockholders. This delivery method can result in meaningful cost savings for us. In order to take advantage of this opportunity, we may deliver only one proxy statement and annual report or one Notice, as applicable, to multiple stockholders who share an address, unless contrary instructions are received from one or more stockholders at that address prior to the mailing date. We undertake to deliver promptly upon written or oral request a separate copy of the proxy statement and annual report or Notice, as applicable, to a stockholder at a shared address to which a single copy of these materials was delivered. If you hold stock as a registered holder and prefer to receive separate copies of these materials either now or in the future, please contact our investor relations department at 60 Leveroni Court, Novato, California 94949 or by telephone at (415) 483-8800. Similarly, if you share an address with another stockholder and have received multiple copies of our proxy statement and annual report or Notice, you may write or call us at the address and phone number above to request delivery of a single copy of these materials in the future. If your stock is held through a brokerage firm, bank or other financial institution and you prefer to receive separate copies of our proxy statement and annual report or Notice, as applicable, either now or in the future, please contact your brokerage firm, bank or other financial institution.

EACH STOCKHOLDER IS URGED TO VOTE VIA THE INTERNET OR OVER THE TELEPHONE AS INSTRUCTED IN THE PROXY CARD OR, IF YOU REQUESTED AND RECEIVED A PRINTED COPY OF THE PROXY STATEMENT, BY COMPLETING, DATING, SIGNING AND RETURNING THE ENCLOSED PROXY CARD USING THE ENCLOSED RETURN ENVELOPE, AS PROMPTLY AS POSSIBLE SO THAT YOUR SHARES MAY BE REPRESENTED AT THE ANNUAL MEETING.