

LIGAND PHARMACEUTICALS INC  
Form DEF 14A  
April 14, 2017

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549  
SCHEDULE 14A INFORMATION  
(Rule 14a-101)  
PROXY STATEMENT PURSUANT TO SECTION 14(a) OF  
THE SECURITIES EXCHANGE ACT OF 1934

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

Preliminary Proxy Statement

Definitive Proxy Statement

Definitive Additional Materials

Soliciting Material under 240.14a-12

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LIGAND PHARMACEUTICALS INCORPORATED

Name of Registrant as Specified In Its Charter

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

Payment of Filing Fee (Check the appropriate box):

No fee required.

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(3) Filing Party:

(4) Date Filed:

Notice of Annual Meeting of Stockholders  
to be held Thursday, May 25, 2017

Dear Stockholder:

The annual meeting of stockholders of Ligand Pharmaceuticals Incorporated (“Ligand” or the “Company”) will be held at 3911 Sorrento Valley Boulevard, Suite 110, San Diego, CA 92121, on May 25, 2017 at 8:30 a.m. local time, for the following purposes:

1. To elect a board of directors for the forthcoming year. Our board of directors has nominated the following seven persons, each to serve for a one year term to expire at the 2018 annual meeting of stockholders: Jason Aryeh, Todd Davis, John Higgins, John Kozarich, John LaMattina, Sunil Patel and Stephen Sabba.
2. To ratify the selection of Ernst & Young LLP as the Company’s independent registered accounting firm for the fiscal year ending December 31, 2017.
3. To consider and vote upon, on an advisory basis, the compensation of our named executive officers as disclosed in this proxy statement pursuant to the compensation disclosure rules of the Securities and Exchange Commission (the “SEC”).
4. To consider and vote upon, on an advisory basis, whether the stockholder vote to approve the compensation of our named executive officers as required by Section 14A(a)(2) of the Securities Exchange Act of 1934, as amended, should occur every one, two or three years.
5. To transact such other business as may properly come before the meeting or any adjournment(s) thereof.

Stockholders of record at the close of business on April 7, 2017 will be entitled to vote at the annual meeting. We have elected to use the internet as our primary means of providing our proxy materials to stockholders. Most stockholders will receive only a Notice of Internet Availability of Proxy Materials with instructions for accessing the proxy materials, including our Proxy Statement and annual report, and for voting via the internet. The Notice of Internet Availability of Proxy Materials also provides information on how stockholders may obtain paper copies of our proxy materials free of charge, if they so choose.

The stock transfer books of the Company will remain open between the record date, April 7, 2017, and the date of the meeting. A list of stockholders entitled to vote at the annual meeting will be available for inspection at the offices of the Company and at the meeting. Whether or not you plan to attend the annual meeting in person, please vote by internet or telephone as described in the enclosed proxy materials or, if you request that the proxy materials be mailed to you, by signing, dating and returning the proxy card enclosed with those materials. If you attend the annual meeting and vote by ballot, your proxy will be revoked automatically and only your vote at the annual meeting will be counted. The prompt return of your proxy will assist us in preparing for the annual meeting.

By Order of the Board of Directors,

/s/ CHARLES S. BERKMAN  
Charles S. Berkman  
Vice President, General Counsel & Secretary  
San Diego, California  
April 14, 2017

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Ligand Pharmaceuticals Incorporated  
3911 Sorrento Valley Boulevard, Suite 110  
San Diego, CA 92121

Proxy Statement

For the Annual Meeting of Stockholders

On behalf of the board of directors of Ligand, we are asking for your proxy, to be used at the annual meeting of stockholders to be held on May 25, 2017. The annual meeting will be held at 8:30 a.m. local time at 3911 Sorrento Valley Boulevard, Suite 110, San Diego, CA 92121. Stockholders of record on April 7, 2017 (the "Record Date") are entitled to notice of and to vote at the annual meeting. If you need directions to the location of the annual meeting, please contact us at (858) 550-7500. On or about April 14, 2017, we will mail to stockholders a Notice of Internet Availability of Proxy Materials containing instructions on how to access our proxy statement and 2016 annual report online and how to vote online. If you receive such a Notice by mail, you will not receive a printed copy of the materials unless you specifically request one. However, the Notice contains instructions on how to request to receive printed copies of these materials and a proxy card by mail.

Important Notice Regarding the Availability of Proxy Materials for the Stockholder Meeting to Be Held on Thursday, May 25, 2017.

This proxy statement and the Company's annual report are available electronically at [www.ecdocumentview.com/LGND](http://www.ecdocumentview.com/LGND).

General Information about the Annual Meeting and Voting

**What is the purpose of the annual meeting?** At our annual meeting, stockholders will act on the items outlined in the notice of meeting that is attached to this proxy statement. These include the election of directors, the ratification of the selection of Ernst & Young LLP as the Company’s independent registered public accounting firm, the approval, on an advisory basis, of the compensation of the named executive officers as disclosed in this proxy statement, and the selection, on an advisory basis, of the frequency of the stockholder vote on such compensation.

**Who can vote at the meeting?** Only stockholders of record as of the close of business on the Record Date are entitled to vote the shares of stock they held on that date. Stockholders may vote in person or by proxy (see “How do I vote by proxy?” below). Each holder of shares of common stock is entitled to one vote for each share of stock held on the proposals presented in this proxy statement. Our amended and restated bylaws provide that a majority of all of the shares of the stock entitled to vote, whether present in person or represented by proxy, will be a quorum for the transaction of business at the meeting.

**How many votes do I have?** Each share of our common stock that you own as of April 7, 2017 entitles you to one vote. The Notice of Internet Availability of Proxy Materials that is sent to you, or the proxy card or voting instruction form that is included in the proxy materials mailed to you if you have requested delivery by mail, will show the number of shares that you are entitled to vote.

**What is a “broker non-vote”?** A broker non-vote occurs when a broker holding shares for a beneficial owner, commonly known as holding shares in “street name,” does not vote on a particular proposal because the broker does not have discretionary voting power with respect to that proposal and has not received instructions from the beneficial owner.

**How are votes counted?** Directors will be elected by a favorable vote of a plurality of the aggregate votes present, in person or by proxy, at the annual meeting. Accordingly, abstentions will not affect the outcome of the election of candidates for director. Absent instructions from the beneficial owner of such shares, a broker is not entitled to vote shares held for a beneficial owner on certain non-routine items, such as the election of directors, the approval, on an advisory basis, of the compensation of the named executive officers as disclosed in this proxy statement, the selection, on an advisory basis, of the frequency of the stockholder vote on such compensation and any stockholder proposals. Thus, if the beneficial owner does not give a broker specific instructions, the beneficially owned shares may not be voted on this proposal and will not be counted in determining the number of shares necessary for approval, although they will count for purposes of determining whether a quorum exists. Stockholders are not permitted to cumulate their shares for the purpose of electing directors or otherwise.

The proposal to ratify the selection of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2017 requires the affirmative vote of a majority of the aggregate votes present, in person or by proxy, and entitled to vote at the annual meeting. Abstentions will have the same effect as a vote against this proposal. However, ratification of the selection of Ernst & Young LLP is considered a routine matter on which a broker or other nominee is empowered to vote. Accordingly, no broker non-votes will result from this proposal. Approval of the non-binding advisory resolution on our executive compensation requires the affirmative vote of a majority of the aggregate votes present, in person or by proxy, and entitled to vote at the annual meeting. Abstentions will have the same effect as a vote against this proposal. Absent instructions from the beneficial owner of such shares, a broker is not entitled to vote shares held for a beneficial owner on the resolution to approve the compensation of our named executive officers. As a result, broker

non-votes will have no effect on the outcome of the vote.

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For purposes of the proposal regarding the frequency of the non-binding vote on our executive compensation, we will consider the frequency alternative of one year, two years or three years that receives the highest number of votes cast by stockholders to be the frequency that has been selected by stockholders. Abstentions will have no effect on the outcome of the vote. Absent instructions from the beneficial owner of such shares, a broker is not entitled to vote shares held for a beneficial owner on the resolution to approve the frequency of the non-binding vote on our executive compensation. As a result, broker non-votes will have no effect on the outcome of the vote. All votes will be counted by an inspector of elections appointed for the meeting. The inspector will count separately “yes” votes, “no” votes, abstentions and broker non-votes. Shares represented by proxies that reflect abstentions or broker non-votes will be counted as shares that are present and entitled to vote for purposes of determining the presence of a quorum. Voting results will be tabulated and certified by our mailing and tabulating agent, Computershare.

Why did I receive a one-page notice in the mail regarding the Internet availability of proxy materials instead of a full set of proxy materials?

Pursuant to rules adopted by the SEC, we have elected to provide access to our proxy materials over the internet. Accordingly, we are sending a Notice of Internet Availability of Proxy Materials to our stockholders who have not previously requested the receipt of paper proxy materials advising them that they can access this proxy statement, the 2016 annual report and voting instructions over the internet at <http://www.envisionreports.com/LGND>, by calling toll-free (866) 641-4276, or by sending an e-mail to [investorvote@computershare.com](mailto:investorvote@computershare.com) with “Proxy Materials Ligand Pharmaceuticals” in the subject line. Include in the message your full name and address, plus the number located in the shaded bar on the reverse, and state in the email that you want a paper copy of current meeting materials. You can also state your preference to receive a paper copy for future meetings. There is no charge for you requesting a copy. Please make your request for a copy on or before May 16, 2017 to facilitate timely delivery. In addition, stockholders may request to receive proxy materials electronically by email or in printed form by mail on an ongoing basis. All stockholders will have the ability to access the proxy materials on the website referred to in the Notice of Internet Availability of Proxy Materials or request to receive a printed set of the proxy materials. We encourage stockholders to take advantage of the availability of the proxy materials on the internet to help reduce the environmental impact of the annual meeting.

How do I Record Holders

vote by proxy?

If you are a stockholder of record on the Record Date, you may vote in one of the following four ways:

By the internet. You may go to [www.envisionreports.com/LGND](http://www.envisionreports.com/LGND) 24 hours a day, 7 days a week, and follow the instructions. You will need the 15-digit control number that is included in the Notice of Internet Availability of Proxy Materials, proxy card or voting instructions form that is sent to you. The internet voting system allows you to confirm that the system has properly recorded your votes. This method of voting will be available up until 11:59 p.m. EDT, on May 24, 2017.

By telephone. On a touch-tone telephone, you may call toll-free 1-800-652-8683, 24 hours a day, 7 days a week, and follow the instructions. You will need the 15 digit control number that is included in the Notice of Internet Availability of Proxy Materials, proxy card or voting instructions form that is sent to you. As with internet voting, you will be able to confirm that the system has properly recorded your votes. This method of voting will be available up until 11:59 p.m. EDT, on May 24, 2017.

By mail. If you are a stockholder of record, and you elect to receive your proxy materials by mail, you may vote by proxy by marking, dating, and signing your proxy card exactly as your name appears on the card and returning it by mail in the postage-paid envelope that will be provided to you. You should mail the proxy card form in plenty of time to allow delivery prior to the meeting. Do not mail the proxy card or voting instruction form if you are voting over the internet or by telephone.

At the annual meeting. You may vote your shares at the annual meeting if you attend in person.

Even if you plan to attend the annual meeting, we encourage you to vote over the internet or by telephone prior to the meeting. It is fast and convenient, and votes are recorded and confirmed immediately.

**Beneficial Owners: Shares Registered in the Name of a Broker or Bank**

If you are a beneficial owner of shares registered in the name of your broker, bank or other agent, you should have received a proxy card and voting instructions with these proxy materials from that organization rather than directly from us. Simply complete and mail the proxy card to ensure that your vote is counted. You may be eligible to vote your shares electronically over the Internet or by telephone. A large number of banks and brokerage firms offer Internet and telephone voting. If your bank or brokerage firm does not offer Internet or telephone voting information, please complete and return your proxy card in the self-addressed, postage-paid envelope provided. To vote in person at the annual meeting, you must obtain a valid proxy from your broker, bank or other agent. Follow the instructions from your broker or bank included with these proxy materials, or contact your broker or bank to request a proxy form.



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May I revoke my proxy? If you give us your proxy, you may revoke it at any time before it is exercised. You may revoke your proxy by sending in another signed proxy with a later date, by notifying our corporate secretary, Charles S. Berkman, in writing before the annual meeting that you have revoked your proxy, or by attending the annual meeting and voting in person.

What is the quorum requirement? A quorum of stockholders is necessary to hold a valid meeting. A quorum will be present if the holders of a majority in voting power of the shares of common stock issued, outstanding and entitled to vote are present in person or represented by proxy at the annual meeting. On the Record Date, there were 20,963,735 shares outstanding and entitled to vote. Accordingly, 10,481,868 shares must be represented by stockholders present at the annual meeting or by proxy to have a quorum. Your shares will be counted towards the quorum only if you submit a valid proxy vote or vote at the annual meeting. Abstentions and broker non-votes will be counted towards the quorum requirement. If there is no quorum, either the chairperson of the annual meeting or a majority in voting power of the stockholders entitled to vote at the annual meeting, present in person or represented by proxy, may adjourn the annual meeting to another time or place.

I share an address with another stockholder, and we received only one paper copy of the proxy materials and annual report. How may I obtain an additional copy of these materials? The rules of the SEC permit us, under certain circumstances, to send a single set of the Notice of Internet Availability of Proxy Materials, proxy materials, and annual reports to any household at which two or more stockholders reside. This procedure, known as householding, reduces the volume of duplicate information you receive and helps to reduce our expenses. In order to take advantage of this opportunity, we have delivered only one Notice of Internet Availability of Proxy Materials or, if you previously requested to receive paper proxy materials by mail, one proxy statement and annual report to stockholders who share an address (unless we received contrary instructions from the affected stockholders prior to the mailing date). We will mail a separate copy of any of these documents, if requested. Requests for separate copies of any of these documents, either now or in the future, as well as requests for single copies in the future by stockholders who share an address and are currently receiving multiple copies, can be made by stockholders of record by contacting our corporate secretary at Ligand Pharmaceuticals Incorporated, 3911 Sorrento Valley Boulevard, Suite 110, San Diego, CA 92121, or by telephone at (858) 550-7500. Such requests by street name holders should be made through their bank, broker or other holder of record.

How do I obtain an Annual Report on Form 10-K? If you would like a copy of our annual report on Form 10-K for the fiscal year ended December 31, 2016 that we filed with the SEC, we will send you one without charge. Please write to:

Ligand Pharmaceuticals Incorporated  
3911 Sorrento Valley Boulevard, Suite 110  
San Diego, CA 92121  
Attn: Corporate Secretary

All of our SEC filings are also available in the Investors section of our website at [www.ligand.com](http://www.ligand.com).

How can I find out the results of the voting at the annual meeting? Preliminary voting results will be announced at the annual meeting. Final voting results will be published in a Current Report on Form 8-K to be filed with the SEC within four business days after the annual meeting. If final voting results are not available to us in time to file a Form 8-K within four business days after the meeting, we intend to file a Form 8-K to publish preliminary results and, within four business days after the final results are known to us, file an amendment to the Form 8-K to publish the final results.

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## Proposal No. 1 Election of Directors

The persons named below have been nominated by our board of directors to serve as directors of the Company until the next annual meeting of stockholders and until their successors have been elected and qualified. The seven candidates receiving the highest number of affirmative votes of the shares entitled to vote at the annual meeting will be elected directors of the Company. As of the date of this proxy statement, our board of directors is not aware of any nominee who is unable to or will decline to serve as a director. If, however, any of those named are unable to serve at the time of the annual meeting, the proxyholders may exercise discretionary authority to vote for substitutes.

## Nominees

Name	Offices Held	Year First	
		Elected	Age*
John W. Kozarich(N)	Chairman of the Board	2003	67
John L. Higgins	Chief Executive Officer and Director	2007	47
Jason M. Aryeh(C)(N)	Director	2006	48
Todd C. Davis(A)(C)	Director	2007	56
John L. LaMattina(C)	Director	2011	67
Sunil Patel(A)	Director	2010	45
Stephen L. Sabba(A)(N)	Director	2008	57

\* As of April 7, 2017

(A) Member of the audit committee

(C) Member of the compensation committee

(N) Member of the nominating and corporate governance committee

## Business Experience of Director Nominees

Jason M. Aryeh has served as a member of Ligand's board of directors since September 2006. He is the founder and managing general partner of JALAA Equities, LP, a private hedge fund focused on the life sciences sector, and has served in such capacity since 1997. Mr. Aryeh serves as the Chairman of the board and a director of Novellion Therapeutics Inc. (formerly QLT Inc.) and has served as the Chairman of both its Corporate Governance and Nominating Committee and its Strategic Action Committee. Mr. Aryeh also serves on the board of directors of Aralez Pharmaceuticals, where he is Chairman of the Transaction Committee and serves on its Compensation Committee and the Cystic Fibrosis Foundation's Therapeutics Board. Mr. Aryeh has served as a director of numerous companies. Mr. Aryeh earned a B.A. in economics, with honors, from Colgate University, and is a member of the Omnicron Delta Epsilon Honor Society in economics. In selecting Mr. Aryeh to serve as a director, the board considered, among other things, his valuable capital markets experience, including his service as managing general partner of a hedge fund focused on the life sciences sector. The Company also benefits from Mr. Aryeh's involvement in the biotechnology industry through his current and former positions as a director of multiple life science organizations including: Novellion Therapeutics Inc., Aralez Pharmaceuticals, CorMatrix Cardiovascular, the Cystic Fibrosis Foundation's Therapeutics board, NabiBiopharmaceuticals and Myrexix, Inc.

Todd C. Davis has served as a member of Ligand's board of directors since March 2007. He is a Founding Managing Director of HealthCare Royalty Partners, a global healthcare investment firm. He has over 33 years of experience working in and investing in the pharmaceutical and biotechnology industries. Over the course of his career, Mr. Davis has been involved in over \$2 billion in healthcare deals and nearly \$1 billion in royalty financings. He has also led, structured and closed over 40 additional intellectual property licenses, as well as growth equity, and debt deals. Previously, from 2004 to 2006, Mr. Davis was a partner at Paul Capital Partners, where he co-managed that firm's royalty investments as a member of the royalty management committee. He also served as a partner responsible for biopharmaceutical growth equity investments at Apax Partners from 2001 to 2004. Prior to beginning his principal investment career in 2001, Mr. Davis held various sales and product management roles at Abbott Laboratories and worked in business development, operations and licensing at Elan Pharmaceuticals. He currently serves on the boards

of Suneva Medical, Inc. and Helomics, Inc. Mr. Davis holds a B.S. from

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the U.S. Naval Academy and an M.B.A. from Harvard University. In selecting Mr. Davis to serve as a director, the board considered, among other things, his valuable prior experience as a director of several public and private companies. Ligand also benefits from Mr. Davis' financial and accounting expertise and leadership experience within the biotechnology industry.

John L. Higgins is the Chief Executive Officer of Ligand Pharmaceuticals Incorporated, a position he has held since January 2007 and he has been a member of Ligand's board of directors since March 2007. Prior to joining Ligand, Mr. Higgins served as Chief Financial Officer at Connetics Corporation, a specialty pharmaceutical company, since 1997, and also served as Executive Vice President, Finance and Administration and Corporate Development at Connetics until its acquisition by Stiefel Laboratories, Inc. in December 2006. Before joining Connetics, he was a member of the executive management team at BioCryst Pharmaceuticals. Prior to BioCryst, Mr. Higgins was a member of the healthcare banking team of Dillon, Read & Co. Inc., an investment banking firm. Mr. Higgins serves as Chairman of CoMentis, Inc., a biopharmaceutical company and serves on the board, audit and compensation committees of BioTechne, a company with a market capitalization of over \$3 billion. Mr. Higgins has served as a director of numerous public and private companies. He graduated Magna Cum Laude from Colgate University with an A.B. in economics. In selecting Mr. Higgins to serve as a director, the board considered, among other things, his valuable experience operating and managing public biotechnology companies, his prior service on other company boards and his financial transaction experience as an investment banker. Ligand also benefits from Mr. Higgins' financial experience in leadership roles at companies within the biopharmaceutical industry.

John W. Kozarich, Ph.D., has served as a member of Ligand's board since March 2003. Dr. Kozarich currently serves as Distinguished Scientist and Executive Advisor of ActivX Biosciences, Inc., and previously served as ActivX's Chairman and President from 2004 through March 2017. From 1992 to 2001, he was vice president at Merck Research Laboratories and previously held professorships at the University of Maryland and Yale University School of Medicine. Dr. Kozarich is also an adjunct professor of Chemical Physiology at the Scripps Research Institute and serves on boards, including ActivX Biosciences Inc., Novelson Therapeutics, Retrophin, Inc. and the Board of Trustees of the Gordon Research Conferences. Previously, Dr. Kozarich served as a director of Corium Intl. He is also a recent recipient of the Distinguished Scientist Award from the San Diego Section of the American Chemical Society. Dr. Kozarich earned his B.S. in chemistry, summa cum laude, from Boston College, his Ph.D. in biological chemistry from the Massachusetts Institute of Technology, and was an NIH Postdoctoral Fellow at Harvard. In selecting Dr. Kozarich to serve as a director, the board considered, among other things, his valuable pharmaceutical and international experience, including his service at Merck Research Laboratories, which is part of one of the world's largest pharmaceutical companies, and his service with ActivX Biosciences, Inc., Novelson Therapeutics Inc. and Corium Intl. Ligand also benefits from Dr. Kozarich's financial and accounting experience in the pharmaceutical and biotechnology industries.

John L. LaMattina, Ph.D., has served as a member of Ligand's board since February 2011. He spent 30 years at Pfizer Inc. beginning as a medicinal chemist in 1977. During his career, he was appointed to various positions of increasing responsibility for Pfizer Central Research, including Vice President of U.S. Discovery Operations in 1993, Senior Vice President of Worldwide Discovery Operations in 1998, Senior Vice President of Worldwide Development in 1999, and President, Pfizer Global R&D in 2004. Dr. LaMattina graduated with cum laude honors from Boston College with a B.S. in Chemistry. He received a Ph.D. from the University of New Hampshire in Organic Chemistry and subsequently was at Princeton University in the National Institutes of Health Postdoctoral Fellowship program. Dr. LaMattina is currently a senior partner at PureTech Ventures and serves on the board of directors of PureTech Health, Gelesis and Vedanta. Additionally, Dr. LaMattina serves as a director of Zafgen, Inc. and is on the Scientific Advisory Board for Trevena. Dr. LaMattina is a respected commentator on the biopharmaceutical industry on Forbes.com as well as with his books, most recently Devalued & Distrusted - Can the Pharmaceutical Industry Restore its Broken Image? In selecting Dr. LaMattina to serve as a director, the board considered, among other things, his valuable pharmaceutical and experience and experience as director of several biotech companies which provides the board with a broad leadership perspective. Ligand also benefits from Dr. LaMattina's expert knowledge of the biopharmaceutical industry and his experience as strategic and scientific advisor.

Sunil Patel has served as a member of Ligand's board of directors since October 2010. He has more than 20 years of senior management and R&D experience in the biotechnology industry and is currently Chief Financial Officer, Senior Vice President Corporate Development & Finance for OncoMed Pharmaceuticals, a development-stage company focused on therapeutics targeting cancer stem cells. Mr. Patel has held senior management positions in corporate development, marketing, and strategy with BiPar Sciences, Allos Therapeutics, Connetics, Abgenix and Gilead Sciences. Mr. Patel also worked at McKinsey & Company serving biotech and pharmaceutical clients and has held scientific research positions at ZymoGenetics and ProCytex. Mr. Patel received his undergraduate degree in Chemistry at the University of California, Berkeley, and master's degree in Molecular Bioengineering/Biotechnology at the University of Washington. In selecting Mr. Patel to serve as a director, the board considered, among other things, his valuable pharmaceutical and corporate

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development experience, including his service at OncoMed Pharmaceuticals. Ligand also benefits from Mr. Patel's experience in serving as a senior member of management at both public and private biotechnology companies. Stephen L. Sabba, M.D., has served as a member of Ligand's board of directors since August 2008. Dr. Sabba has been a leading Bio/Pharma Analyst and Fund Manager for Knott Partners, L.P., an investment fund company, since November 2006. Previously he was a Partner and Director of Research with Kilkenny Capital Management, a Chicago-based biomedical hedge fund. Prior to that, Dr. Sabba was Director of Research at Sturza's Medical Research, and previously was a gastroenterologist and internist in private practice at Phelps Memorial Hospital in North Tarrytown, New York. He received his medical degree from the New York University School of Medicine, and completed a residency in internal medicine and a fellowship in gastroenterology at the Veterans Administration Medical Center in New York City. He earned a B.S. with honors at Cornell University. Dr. Sabba has served as a member of the board of the directors for Novellion Therapeutics Inc., a leading Canadian biotech company, since June 2012. In selecting Dr. Sabba to serve as a director, the board considered, among other things, his capital markets and accounting expertise gained from his prior experience working in the hedge fund and investment fund industries. Ligand also benefits from his background as a medical doctor and from his understanding of medicine.

#### Director Independence

Our board of directors has determined that, with the exception of Mr. Higgins, each of the directors is an independent director under the NASDAQ Global Market listing standards. The independent directors have two or more regularly scheduled executive sessions per year at which only the independent directors are present.

#### Board Meetings and Committees

Our board of directors held six meetings, with two in-person and four by telephone, and acted by unanimous written consent three times during the year ended December 31, 2016. During such year, each incumbent director attended at least 75% of the aggregate number of meetings of our board of directors and the committees on which he served which were held during the periods in which he served.

Our board of directors has an audit committee, a nominating and corporate governance committee and a compensation committee. Each committee is described below. Each of these committees has a written charter approved by our board of directors. A copy of each charter can be found in the "Investors—Corporate Governance—Committee Charters" section of our website at [www.ligand.com](http://www.ligand.com). Our board of directors has determined that each member of these committees meets the applicable rules and regulations regarding independence and that each member is free of any relationship that would interfere with his or her individual exercise of independent judgment with regard to the Company.

The audit committee is primarily responsible for overseeing the Company's accounting and financial reporting processes, auditing of financial statements, systems of internal control, and financial compliance programs. The audit committee currently consists of Messrs. Davis and Patel and Dr. Sabba (chair). The audit committee held ten meetings with one in-person and nine by telephone, and acted by unanimous written consent one time during 2016. After reviewing the qualifications of all current committee members and any relationship they may have that might affect their independence from the Company, our board of directors has determined that (i) all current committee members are "independent" as defined under Section 10A of the Securities Exchange Act of 1934, as amended, (ii) all current committee members are "independent" as defined under the applicable NASDAQ Global Market listing standards, (iii) all current committee members have the ability to read and understand financial statements and (iv) Dr. Sabba qualifies as an "audit committee financial expert." The latter determination is based on a qualitative assessment of his level of knowledge and experience based on a number of factors, including his formal education and experience.

The nominating and corporate governance committee is responsible for identifying and recommending candidates for director of the Company. The nominating and corporate governance committee currently consists of Mr. Aryeh (chair) and Drs. Kozarich and Sabba. Each member of the nominating and corporate governance committee is an independent director under the NASDAQ Global Market listing standards. The nominating and corporate governance committee held one in-person meeting during 2016.

The nominating and corporate governance committee considers nominees recommended by stockholders, if submitted in writing to the Secretary at the Company's principal executive offices and accompanied by the author's full name, current





address and telephone number. The nominating and corporate governance committee has set no specific minimum qualifications for candidates it recommends, but considers each individual's qualifications, such as high personal integrity and ethics, relevant expertise and professional experience, as a whole. The nominating and corporate governance committee and the board as a whole consider it beneficial to the Company to have directors with a diversity of backgrounds and skills. The nominating and corporate governance committee and the board as a whole have no formal policy with regard to the consideration of diversity in identifying director nominees. The nominating and corporate governance committee considers candidates throughout the year and makes recommendations as vacancies occur or the size of our board of directors expands. Candidates are identified from a variety of sources including recommendations by stockholders, current directors, management, and other parties. The nominating and corporate governance committee considers all such candidates in the same manner, regardless of source. Under its charter, the nominating and corporate governance committee may retain a search firm to identify and recommend candidates but has not done so to date.

The compensation committee reviews and approves the Company's compensation policies, sets executive officers' compensation and administers the Company's stock option and stock purchase plans. The compensation committee consists of Messrs. Aryeh and Davis (chair) and Dr. LaMattina. Each member is an independent director under the NASDAQ Global Market listing standards. The compensation committee held five meetings with two in-person and three by telephone, and acted by unanimous written consent two times during 2016.

The Company does not have a policy regarding attendance of the directors at the annual meeting. At our 2016 annual meeting of stockholders, none of our then-current directors was in attendance.

#### Board Leadership Structure

Our board of directors has nominated seven persons to serve as directors of the Company until the next annual meeting of stockholders, six of whom are independent. We separate the roles of chief executive officer and chairman of our board of directors in recognition of the differences between the two roles. The chief executive officer is responsible for setting the strategic direction for the Company and the day-to-day leadership and performance of the Company, while the chairman of our board of directors provides guidance to the chief executive officer and presides over meetings of the full board of directors. We believe that this separation of responsibilities provides a balanced approach to managing the board of directors and overseeing the Company.

#### Board's Role in Risk Oversight

Our board of directors is actively involved in oversight of risks that could affect the Company. The board's role in our risk oversight process includes receiving regular reports from members of senior management on areas of material risk to the Company, including risks associated with our operational, financial, legal and regulatory functions. The full board (or the appropriate board committee in the case of risks that are under the purview of a particular committee) receives these reports from the appropriate "risk owner" within the organization to enable it to understand our risk identification, risk management and risk mitigation strategies. When a board committee engages in a discussion related to areas of material risk to the Company, the chairperson of the relevant committee reports on the discussion to the full board during the committee reports portion of the next board meeting. This enables the board and its committees to coordinate the risk oversight role.

#### Communicating with the Board of Directors

Stockholders may communicate with our board of directors or individual directors by mail, in care of the Secretary, at the Company's principal executive offices. Letters are distributed to the board of directors, or to any individual director or directors as appropriate, depending on the content of the letter. However, items that are unrelated to the duties and responsibilities of the board of directors will be excluded. In addition, material that is illegal, inappropriate or similarly unsuitable will be excluded. Any letter that is filtered out under these standards, however, will be made available to any director upon request.

#### Recommendation of the Board of Directors

The board of directors unanimously recommends a vote FOR the nominees listed above.



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Proposal No. 2 Ratification of Independent Registered Public Accounting Firm

On August 22, 2016, the Audit Committee of the Company's Board approved the selection of Ernst & Young LLP as its independent registered public accounting firm. In connection with selecting Ernst & Young LLP, the Audit Committee dismissed Grant Thornton LLP as the Company's independent registered public accounting firm. The Company filed a Current Report on Form 8-K on August 26, 2016 reporting this change.

The reports of Grant Thornton LLP on the Company's financial statements for each of the two fiscal years ended December 31, 2015 and December 31, 2014, did not contain any adverse opinion or disclaimer of opinion, nor were they qualified or modified as to uncertainty, audit scope or accounting principles. In addition, during the fiscal years ended December 31, 2015 and December 31, 2014, as well as during the subsequent interim period preceding August 22, 2016, there were no (i) "disagreements" (as that term is defined in Item 304(a)(1)(iv) of Regulation S-K and related instructions) between the Company and Grant Thornton LLP with respect to any matter relating to accounting principles, financial statement disclosure or auditing scope or procedures which, if not resolved to the satisfaction of Grant Thornton LLP, would have caused Grant Thornton LLP to make reference to the subject matter of the disagreement in its reports on the Company's financial statements with respect to such periods; or (ii) "reportable events" (as that term is defined in Item 304(a)(1)(v) of Regulation S-K and the related instructions).

The Company filed a letter from Grant Thornton LLP to the U.S. Securities and Exchange Commission stating its agreement with the preceding paragraph with its Current Report on Form 8-K on August 26, 2016.

You are being asked to ratify the selection of Ernst & Young LLP as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2017. Neither the firm nor any of its members has any relationship with the Company or any of its affiliates, except in the firm's capacity as the Company's independent registered public accounting firm.

Stockholder ratification of the selection of Ernst & Young LLP as the Company's independent registered public accounting firm is not required by Delaware law, the Company's certificate of incorporation, the Company's amended and restated bylaws, or otherwise. However, the board of directors is submitting the selection of Ernst & Young LLP to the stockholders for ratification as a matter of good corporate practice. In the event the stockholders fail to ratify the selection, the board of directors will reconsider its selection. Even if the selection is ratified, the board of directors or its audit committee, in its discretion, may direct the appointment of a different independent auditing firm at any time during the year if such a change would be in the Company's and its stockholders' best interests.

Representatives of Ernst & Young LLP are expected to be present at the annual meeting, and will have the opportunity to make a statement if they desire to do so and are expected to be available to respond to appropriate questions. The affirmative vote of the holders of a majority of the shares represented and voting at the annual meeting will be required to ratify the selection of Ernst & Young LLP.

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## Independent Auditor's Fees

The following is a summary of the fees incurred by the Company from Ernst & Young LLP, the Company's independent registered public accounting firm for the fiscal year ended December 31, 2016 and from Grant Thornton LLP, the Company's former registered public accounting firm for the fiscal year ended December 31, 2015 and for the period between January 1, 2016 and August 22, 2016:

Fee Category	Ernst & Young LLP Fiscal Year 2016 Fees <sup>(1)</sup>	Grant Thornton LLP Fees from January 1, 2016 to August 22, 2016	Grant Thornton LLP Fiscal Year 2015 Fees
Audit Fees <sup>(2)</sup>	\$988,273	\$505,862	\$625,856
Audit-related fees <sup>(3)</sup>	—	43,722	—
Tax Fees <sup>(4)</sup>	163,278	282,966	289,843
Total Fees	\$1,151,551	\$832,550	\$915,699

(1) Consists of fees billed for professional services rendered after August 22, 2016, for the audit of the Company's annual financial statements and the review of the interim financial statements included in the Company's Quarterly Reports and for services normally provided in connection with regulatory filings or engagements.

Audit fees consist of fees for professional services rendered for the audit of the Company's consolidated annual financial statements and review of the interim consolidated financial statements included in quarterly reports and services that are normally provided in connection with statutory and regulatory filings or engagements. In 2016 and 2015 audit fees included fees for professional services rendered for the audits of (i) management's assessment of the effectiveness of internal control over financial reporting and (ii) the effectiveness of internal control over financial reporting, (iii) comfort letters, consents, and assistance with and review of documents filed with the SEC, and (iv) other accounting and financial reporting consultation and research work necessary to comply with the standards of the PCAOB.

(2) Audit-related fees consist of professional services rendered for assistance with tax related due diligence work related to the acquisition of Open Monoclonal Technology, Inc.

(3) Tax fees consist of fees for professional services rendered for assistance with federal, state and international tax compliance and tax consulting projects including the analysis of our net operating loss carryforwards, Research and Development tax credit analysis and international tax planning.

In considering the nature of the services provided by Ernst & Young LLP during the 2016 fiscal year, the audit committee determined that such services are compatible with the provision of independent audit services.

The audit committee discussed these services with Ernst & Young LLP and the Company's management to determine that they are permitted under the rules and regulation concerning auditor independence promulgated by the SEC to implement the Sarbanes-Oxley Act of 2002, as well as the American Institute of Certified Public Accountants.

All services performed by Ernst & Young LLP in 2016 and Grant Thornton LLP in 2016 and 2015 were pre-approved in accordance with the requirements of the audit committee charter.

Except as stated above, there were no other fees charged by Ernst & Young LLP for 2016 or Grant Thornton for 2016 and 2015. The audit committee considers the provision of these services to be compatible with maintaining the

independence of Ernst & Young LLP. None of the fees paid to Ernst & Young LLP under the category “Tax Fees” described above were approved by the audit committee after services were rendered pursuant to the de minimis exception established by the SEC.

**Audit Committee Policy Regarding Pre-Approval of Audit and Permissible Non-Audit Services of Our Independent Registered Public Accounting Firm**

Our audit committee has established a policy that all audit and permissible non-audit services provided by our independent registered public accounting firm will be pre-approved by the audit committee. These services may include audit services, audit-related services, tax services and other services. The audit committee considers whether the provision of each non-audit service is compatible with maintaining the independence of our auditors. Pre-approval is detailed as to the particular service or category of services and is generally subject to a specific budget. Our independent registered public accounting firm and management are required to periodically report to the audit committee regarding the extent of services provided by the

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independent registered public accounting firm in accordance with this pre-approval, and the fees for the services performed to date.

Recommendation of the Board of Directors

Our board of directors unanimously recommends that stockholders vote FOR the ratification of the selection of Ernst & Young LLP to serve as the Company's independent registered public accounting firm for the year ending December 31, 2017.

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### Proposal No. 3 Approval of Compensation of the Named Executive Officers

Under the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 (the "Dodd-Frank Act"), our stockholders are entitled to vote at the annual meeting to provide advisory approval of the compensation of our named executive officers as disclosed in this proxy statement pursuant to the compensation disclosure rules of the SEC. This proposal, commonly known as a "say-on-pay" proposal, gives our stockholders the opportunity to express their views on our named executive officers' compensation. This vote is not intended to address any specific item of compensation, but rather the overall compensation of our named executive officers and the philosophy, policies and practices described in this proxy statement. Pursuant to the Dodd-Frank Act, the stockholder vote on executive compensation is an advisory vote only, and it is not binding on us or our board of directors.

Although the vote is non-binding, our compensation committee and board of directors value the opinions of the stockholders and will consider the outcome of the vote when making future compensation decisions. As described more fully in the Compensation Discussion and Analysis section of this proxy statement, our executive compensation program is designed to attract, retain and motivate individuals with superior ability, experience and leadership capability to deliver on our annual and long-term business objectives necessary to create stockholder value. We urge stockholders to read the Compensation Discussion and Analysis section of this proxy statement, which describes in detail how our executive compensation policies and procedures operate and are intended to operate in the future. The compensation committee and the board of directors believe that our executive compensation program fulfills these goals and is reasonable, competitive and aligned with our performance and the performance of our executives.

We are asking our stockholders to indicate their support for our named executive officer compensation as described in this proxy statement. Accordingly, we ask that our stockholders vote "FOR" the following resolution:

"RESOLVED, that Ligand Pharmaceuticals Incorporated stockholders approve, on an advisory basis, the compensation of the named executive officers, as disclosed in Ligand Pharmaceuticals Incorporated's Proxy Statement for the 2017 annual meeting of stockholders, pursuant to the compensation disclosure rules of the SEC, including the Compensation Discussion and Analysis, the 2016 Summary Compensation Table and the other related tables and disclosure."

#### Recommendation of the Board of Directors

Our board of directors unanimously recommends that stockholders vote FOR the approval, on an advisory basis, of the compensation of the named executive officers as disclosed in this proxy statement pursuant to the compensation disclosure rules of the SEC.

### Proposal No. 4 Frequency of Stockholder Vote on Executive Compensation

Under the Dodd-Frank Act, our stockholders are entitled to vote at the annual meeting regarding whether the stockholder vote to approve the compensation of the named executive officers as required by Section 14A(a)(2) of the Exchange Act (and as described in proposal 4 of this proxy statement), should occur every one, two or three years. Under the rules issued by the SEC, stockholders shall also have the option to abstain from voting on the matter. Pursuant to the Dodd-Frank Act, the stockholder vote on the frequency of the stockholder vote to approve executive compensation is an advisory vote only, and it is not binding on us or our board of directors.

Although the vote is non-binding, our compensation committee and board of directors value the opinions of our stockholders and will consider the outcome of the vote when determining the frequency of the stockholder vote on executive compensation. For purposes of this proposal, we will consider the frequency alternative of one year, two years or three years

that receives the highest number of votes cast by stockholders to be the frequency that has been selected by stockholders. Abstentions and broker non-votes will have no effect on the outcome of the vote.

Our board of directors has determined that an annual advisory vote on executive compensation is the most appropriate alternative for the Company at this time for a number of reasons, including the following:

• A portion of the compensation of our named executive officers is evaluated, adjusted and approved on an annual basis.

• Our board of directors believes that current best corporate practices and governance trends favors an annual advisory vote.

• We currently undertake an annual advisory vote on executive compensation following our stockholder's vote in 2011 recommending an annual vote.

Further, by providing an advisory vote on executive compensation every year, our stockholders will be able to provide us with direct input on our compensation philosophy, policies and practices as disclosed in the proxy statement every year. However, stockholders should note that because the advisory vote on executive compensation occurs well after the beginning of the compensation year, and because the different elements of our executive compensation programs are designed to operate in an integrated manner and to complement one another, in many cases it may not be appropriate or feasible to change our executive compensation programs in consideration of any single year's advisory vote on executive compensation by the time of the following year's annual meeting of stockholders.

Recommendation of the Board of Directors

Our board of directors unanimously recommends a vote FOR EVERY YEAR regarding the frequency of the stockholder vote to approve the compensation of the named executive officers as required by Section 14A(a)(2) of the Exchange Act. Please note that stockholders are not voting to approve or disapprove our board's recommendation regarding this proposal 4.

Executive Officers

The names of the executive officers of the Company and their ages, titles and biographies as of April 7, 2017 are set forth below.

John L. Higgins, 47, is being considered for the position of director of the Company. See "Election of Directors" for a discussion of Mr. Higgins' business experience.

Charles S. Berkman, J.D., 48, has served as our Vice President, General Counsel and Secretary since April 2007. Mr. Berkman joined the Company in November 2001 and previously served as Associate General Counsel and Chief Patent Counsel for the Company (and Secretary since March 2007). Prior to joining the Company, Mr. Berkman was an attorney at the international law firm of Baker & McKenzie from November 2000 to November 2001. Before that he served as an attorney at the law firm of Lyon & Lyon from 1993 to November 2000, where he specialized in intellectual property law. Mr. Berkman earned a B.S. in chemistry from the University of Texas and a J.D. from the University of Texas School of Law.

Matthew W. Foehr, 44, has been our President and Chief Operating Officer since January 2015. Prior to that time, Mr. Foehr served as our Executive Vice President and Chief Operating Officer since 2011, and has more than 20 years of experience managing global research and development programs. Prior to joining Ligand in 2011, he was Vice President and Head of Consumer Dermatology R&D, as well as Acting Chief Scientific Officer of Dermatology, in the Stiefel division of GlaxoSmithKline (GSK). Following GSK's \$3.6 billion acquisition of Stiefel in 2009, Mr.

Foehr led the R&D integration of Stiefel into GSK. At Stiefel Laboratories, Inc., Mr. Foehr served as Senior Vice President of Global R&D Operations, Senior Vice President of Product Development & Support, and Vice President of Global Supply Chain

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Technical Services. Prior to Stiefel, Mr. Foehr held various executive roles at Connetics Corporation including Senior Vice President of Technical Operations and Vice President of Manufacturing. Mr. Foehr serves on the Board of Directors of Viking Therapeutics, Inc. and Ritter Pharmaceuticals, Inc. Mr. Foehr is the author of multiple scientific publications and is named on numerous U.S. patents. He received his B.S. degree in biology from Santa Clara University.

Matthew Korenberg, 42, has served as our Vice President, Finance and Chief Financial Officer since August 2015. Prior to joining Ligand, commencing in September 2013, Mr. Korenberg was the founder, Chief Executive Officer and a director of NeuroCircuit Therapeutics, a company focused on developing drugs to treat genetic disorders of the brain with an initial focus on Down syndrome. Prior to founding NeuroCircuit Therapeutics, Mr. Korenberg was a Managing Director and member of the healthcare investment banking team at Goldman Sachs from July 1999 through August 2013. During his 14 year tenure at Goldman Sachs, Mr. Korenberg was focused on advising and financing companies in the biotechnology and pharmaceutical sectors and was based in New York, London and San Francisco. Prior to Goldman Sachs, Mr. Korenberg was a healthcare investment banker at Dillon, Read & Co. Inc. where he spent two years working with healthcare companies in the biotechnology and pharmaceutical sectors and industrial companies. Mr. Korenberg holds a B.B.A. in Finance and Accounting from The University of Michigan.

Security Ownership of Certain Beneficial Owners, Directors and Management

The following table shows, based on information we have, the beneficial ownership of our common stock as of April 7, 2017, by:

- all persons who are beneficial owners of 5% or more of our outstanding common stock;
- each of our current directors;
- each of our named executive officers (as defined below in “Compensation Discussion and Analysis – Summary Compensation Table”); and
- all of our executive officers and directors as a group.

Unless otherwise indicated, each of the stockholders has sole voting and investment power with respect to the shares beneficially owned, subject to community property laws, where applicable. Percentage of ownership is based on approximately 20,919,894 shares of common stock outstanding on April 7, 2017. Shares of common stock underlying options include options which are currently exercisable or will become exercisable within 60 days after April 7, 2017, are deemed outstanding for computing the percentage of the person or group holding such options, but are not deemed outstanding for computing the percentage of any other person or group. The address for individuals for whom an address is not otherwise indicated is 3911 Sorrento Valley Boulevard, Suite 110, San Diego, CA 92121.

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Beneficial Owner	Number of Shares Beneficially Owned	Shares Beneficially Owned via Options, Warrants or Convertible Notes	Percent of Class Owned
BlackRock, Inc. <sup>(1)</sup> 55 East 52 <sup>nd</sup> Street New York, NY 10055	2,430,096	—	11.6%
The Vanguard Group <sup>(2)</sup> 100 Vanguard Blvd. Malvern, PA 19355	1,613,425	—	7.7%
William Blair Investment Management, LLC <sup>(3)</sup> 222 W. Adams St. Chicago, IL 60606	1,214,647	—	5.8%
David M. Knott <sup>(4)</sup> 485 Underhill Blvd., Suite 205 Syosset, NY 11791	1,100,656	—	5.3%
RS Investment Management Co. LLC <sup>(5)</sup> One Bush Street, Suite 900 San Francisco, CA 94104	1,089,730	—	5.2%
Directors and Executive Officers			
Jason M. Aryeh <sup>(6)</sup>	217,882	6,066	1.1%
Charles S. Berkman	42,805	20,795	*
Todd C. Davis	70,141	2,754	*
Matthew W. Foehr	92,720	264,569	1.7%
John L. Higgins	143,171	659,910	3.7%
Matthew Korenberg	15,072	16,707	*
John W. Kozarich	39,983	30,571	*
John L. LaMattina	20,290	28,071	*
Sunil Patel	38,647	33,071	*
Stephen L. Sabba	27,244	33,071	*
Directors and executive officers as a group (10 persons)	707,955	1,095,585	8.3%

\* Less than one percent.

- (1) Represents shares of common stock owned by funds affiliated with BlackRock, Inc. at December 31, 2016, as indicated in the entity's Schedule 13G/A filed with the SEC on January 12, 2017.
- (2) Represents shares of common stock beneficially owned by The Vanguard Group at December 31, 2016 as indicated in the entity's Schedule 13G/A filed with the SEC on February 10, 2017.
- (3) Represents shares of common stock beneficially owned by William Blair Investment Management, LLC at December 31, 2016 as indicated in the entity's Schedule 13G/A filed with the SEC on February 14, 2017
- (4) Represents shares of common stock beneficially owned by David M. Knott and Dorset Management Corporation ("Dorset") at December 31, 2016 as indicated in such persons' Schedule 13G/A filed with the SEC on February 13, 2017. Mr. Knott served on our board of directors from March 2007 through May 2016. Mr. Knott is the sole director and President of Dorset, which provides investment management services to a limited number of foreign and domestic individuals and entities. The aggregate number of securities reported by Mr. Knott and Dorset do not include 60,315 shares held by Dr. Stephen Sabba. Mr. Knott does not have, nor does he share with Dr. Sabba, the

power to dispose of or to vote such shares owned by Dr. Sabba.

(5) Represents shares of common stock beneficially owned by RS Investment Management Co. LLC at December 31, 2016 as indicated on the entity's Schedule 13G/A filed with the SEC on February 12, 2016.

(6) Shares held by Jason Aryeh are owned by certain funds managed by JALAA Equities, LP ("JALAA"), JLV Investments, LP ("JLV") and affiliates (collectively, the "Funds"). Mr. Aryeh is the general partner of JALAA and a partner of JLV. Mr. Aryeh individually has the sole power to vote 217,882 shares and dispose of 217,882 shares beneficially owned by Mr. Aryeh and the Funds.

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## Compensation Discussion and Analysis

This Compensation Discussion and Analysis (“CD&A”) describes our compensation philosophy and programs, the compensation decisions the compensation committee made under those programs, and the factors considered in making those decisions. This CD&A focuses on the compensation of our named executive officers or “NEOs”, who for 2016 were:

Name	Title
John L. Higgins	Chief Executive Officer
Matthew W. Foehr	President and Chief Operating Officer
Charles S. Berkman	Vice President and General Counsel
Matthew Korenberg	Vice President, Finance and Chief Financial Officer

### Executive Summary

#### Overview and Objectives of Our Executive Compensation Program

The compensation committee has designed our executive compensation program to provide compensation opportunities that:

- attract, motivate and retain individuals of superior ability and managerial talent critical to its long-term success;
- align executives’ interests with the Company’s corporate strategies, business objectives and the long-term interests of the Company’s stockholders;
- create incentives to achieve key strategic and corporate performance objectives; and
- enhance the executives’ incentive to increase the Company’s stock price and maximize stockholder value.

Within this framework our compensation program has been developed with the following key principles in mind:

**We Intend to Pay for Performance.** The majority of our named executive officers’ total compensation as shown in our Summary Compensation Table below ties compensation directly to the achievement of corporate objectives, increases in our stock price or both. We emphasize pay for performance in order to align executive compensation with our business strategy and the creation of long-term stockholder value.

**Our Compensation Program Supports Our Corporate Objectives and Stockholder Interests.** Our compensation program is designed to align executive officer compensation with our corporate strategies, business objectives and the long-term interests of our stockholders by rewarding successful execution of our business plan and tying a significant portion of total compensation opportunities to equity incentives.

**Key Elements of Our Compensation Program.** Our compensation program is designed to achieve these objectives through a combination of the following types of compensation:

- base salary;
- annual variable performance bonus awards payable in cash;
- long-term stock-based incentive awards comprised of a significant portion of performance-based equity; and
- employee benefits and perquisites, including change in control severance arrangements.

Each element of our executive compensation program is discussed in greater detail below.

## Ligand's Strong 2016 Corporate Performance

Our Company's fiscal year 2016 accomplishments, guided by our named executive officers, illustrate the success of our executive compensation program, and included, among other things, the following:

**Successful Business Development:** The Company's shots-on-goal portfolio increased through licensing and acquisitions by approximately 30 during 2016, finishing the year with over 155 shots on goal. Additionally, the Company acquired a portfolio of synthetic royalty/milestone rights from CorMatrix.

**OmniAb Business:** The Company smoothly integrated the OmniAb technology into the organization. In addition, the Company increased customer service, reduced risks related to the technology and expanded the intellectual property.

**Continued Optimization of Captisol Business:** In 2016, the Company entered into 90 new Captisol research contracts and had significant year-over-year increases in sample requests from prospective partners. The Company also expanded its Captisol intellectual property portfolio with new patents issued expanding patent term on Captisol to 2033.

- **Research and Development:** In 2016, the Company continued to advance its product pipeline, including the initiation of our Glucagon Receptor Antagonist Phase 2 clinical trial.

**Operational Achievements:** During 2016, the Company had its fifth consecutive year of being cash flow positive with solid financial growth. The Company successfully contained costs while integrating the OmniAb business within the organization.

#### Performance Graph

The graph below shows the five-year cumulative total stockholder return assuming the investment of \$100 and is based on the returns of the component companies weighted monthly according to their market capitalizations. The graph compares total stockholder returns of our common stock, of all companies traded on the NASDAQ Stock market, as represented by the NASDAQ Composite® Index, and of the NASDAQ Biotechnology Stock Index, as prepared by The NASDAQ Stock Market Inc. The NASDAQ Biotechnology Stock Index tracks approximately 162 domestic biotechnology stocks.

The stockholder return shown on the graph below is not necessarily indicative of future performance and we will not make or endorse any predictions to future stockholder returns.

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## 2016 Compensation Programs and Decisions

In line with our executive compensation program's emphasis on pay for performance, compensation awarded to our named executive officers for 2016 reflected our financial results and overall compensation philosophy:

**Base Salary Adjustments:** During 2016, our named executive officers received increases to their base salaries of between 4% and 9%. The Company provides its named executive officers with a base salary that approximates the 25th percentile for similar positions at our peer group, and these increases were determined to be appropriate by our compensation committee to ensure that the base salaries of our named executive officers continued to be generally consistent with this pay positioning philosophy.

**Pay-for-Performance Annual Incentive Bonuses:** For 2016, our Company focused on certain key business development objectives and objectives related to business development, the Captisol business, the OmniAb business, the successful management of the Glucagon Receptor Antagonist Phase 2 clinical trial and operational goals. Our compensation program for 2016 was designed to support the Company's focus on these areas and together achievement in these areas represented 100% of our named executive officers' total bonus opportunity. Based on corporate performance in these five areas during 2016, as summarized above, our compensation committee determined that our executive officers should be paid their bonuses at the 90% of targeted levels. The annual bonuses awarded to our named executive officers for 2016 are discussed below under "Annual Performance-Based Cash Compensation."

**Equity Emphasis on Performance-Based Equity Awards:** Our compensation committee continued its practice of ensuring that a substantial portion of our named executive officers' total compensation is awarded in the form of long-term equity incentive awards. In 2016, at least 25% of each named executive officer's equity awards were granted in the form of performance-based stock awards.

**Stock Options:** Fifty percent of each named executive officer's annual awards was granted in the form of stock options, which we consider to be performance based awards as they provide value to our executives only if our stock price increases. These stock options are subject to our standard four year vesting schedule.

**Performance-Based Restricted Stock Units:** In 2016, the compensation committee also awarded performance-based restricted stock units to our named executive officers, which awards represented approximately 25% of the total value of the long-term equity incentive awards granted to our named executive officers in 2016. These performance-based restricted stock units will vest based on objectives related to our revenues for the two year performance period commencing January 1, 2016 and ending December 31, 2017 and our new OmniAb shots-on-goal transactions during the three year performance period commencing January 1, 2016 and ending December 31, 2018, with each such objective equally weighted. The compensation committee selected the foregoing performance measures because they represent the key financial and operational performance metrics for which the executives are responsible, thereby creating the clearest link between executive actions, corporate results and continued long-term success for the Company.

**Time-Based Restricted Stock Units:** The remainder of the long-term equity incentive awards granted to our named executive officers was granted in the form of restricted stock units that are subject to our standard three year vesting schedule.

In light of the Company's overall performance during 2016, the compensation committee believes that the named executive officers' 2016 compensation was appropriate.

Ligand's Executive Compensation Best Practices

We regularly review and refine our executive compensation program to ensure that it continues to reflect practices and policies that are aligned with our pay-for-performance philosophy. The following practices and policies we believe are in line with current best practices for aligning executive and shareholder interests and sound corporate governance practices:

Compensation Practice	Ligand Policy
Pay for Performance	YES A majority of our executives' total direct compensation is performance-based We seek an annual non-binding advisory vote from our shareholders to approve the
Annual "Say on Pay" Vote	YES executive compensation programs disclosed in our CD&A, tabular disclosure and related narrative in our proxy
Independent Compensation Consultant	YES The compensation committee retains an independent compensation consultant
Annual Compensation Risk Assessment	YES Each year we perform an assessment of any risks that could result from our compensation plans and programs
Stock Ownership Guidelines for Directors	YES We have stock ownership guidelines for non-employee directors of 3.0 times their annual retainer
Employment Agreements	NO We do not provide our executive officers with employment agreements
Excise Tax Gross-ups	NO We do not provide tax gross ups to our executives for "excess parachute payments"
Repricing or Exchange of Underwater Stock Options	NO We prohibit option repricing without stockholder approval
Single Trigger Change in Control Vesting/Benefits	NO We do not provide for single-trigger vesting or payment of benefits for our executives upon a change in control. Rather, we provide double-trigger (or both a change in control and termination of an executive's employment) before vesting is accelerated

Response to 2016 Say on Pay Vote

In May 2016, we held a stockholder advisory vote on the compensation of our named executive officers, commonly referred to as a say-on-pay vote. Our stockholders overwhelmingly approved the compensation of our named executive officers, with over 99% of stockholder votes cast in favor of our 2016 say-on-pay resolution (excluding abstentions and broker non-votes). As we evaluated our compensation practices and talent needs throughout 2016, we were mindful of the strong support our stockholders expressed for our compensation philosophy. As a result, following our annual review of our executive compensation philosophy, the compensation committee decided to generally retain our existing approach to executive compensation for our continuing executives, with an emphasis on short- and long-term incentive compensation that rewards our senior executives when they deliver value for our stockholders.

The Role of the Compensation Committee and Executive Officers in Setting Compensation

The compensation committee has the primary authority to determine the Company's compensation philosophy and to establish compensation for the Company's executive officers. In determining each level of compensation and the total package, the compensation committee reviewed a variety of sources, to determine and set compensation.

The chief executive officer aids the compensation committee by providing annual recommendations regarding the compensation of all executive officers, other than himself. Each named executive officer and senior executive management team member, in turn, participates in an annual performance review with the chief executive officer to provide input about his contributions to the Company's success for the period being assessed. The performance of our chief executive officer and senior executive management team as a group is reviewed annually by the compensation committee.

In 2016, the compensation committee retained Radford, an AonHewitt Company and an independent compensation consulting firm, to assist it in the formulation of the peer group used to determine executive equity compensation

during 2016 and to advise regarding the determination of the other key elements of the executive compensation program. Radford reports to and is accountable to the compensation committee, and may not conduct any other work for us without the authorization of the compensation committee. Radford did not provide any services to us in 2016 beyond its engagement as an advisor to the

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compensation committee on executive compensation matters. After review and consultation with Radford, the compensation committee has determined that Radford is independent and there is no conflict of interest resulting from retaining Radford currently or during the year ended December 31, 2016. In reaching these conclusions, the compensation committee considered the factors set forth in Exchange Act Rule 10C-1 and NASDAQ listing standards.

As in prior years, the compensation committee and the Company's management also consulted several independent compensation surveys to assist them in determining market pay practices for compensating executive officers. These surveys were reviewed to compare the Company's compensation levels to the market compensation levels, taking into consideration the other companies' size, the industry, the individual executive's level of responsibility and his years of experience. For 2016, the current executive salaries were evaluated against the Radford Global Life Sciences Compensation Report using data from comparable companies. These surveys were used due to the competitiveness in hiring employees within the biotechnology industry as well as in our geographic location and we believe they represent the types of companies with which we compete for executive talent. With respect to the foregoing survey data, the identities of the individual companies included in the surveys were not provided to the compensation committee, and the compensation committee did not refer to individual compensation information for such companies. Instead, the compensation committee only referred to the statistical summaries of the compensation information for the companies included in such surveys.

Additionally, the compensation committee worked with Radford to confirm a peer group of companies in the United States for which compensation information can be provided to the compensation committee. This is necessary so the Company can offer compensation that is competitive within that group of companies. The peer group companies for 2016 compensation included ACADIA Pharmaceuticals, Acorda Therapeutics, AMAG Pharmaceuticals, Anacor Pharmaceuticals, ARIAD Pharmaceuticals, Array BioPharma, Depomed, Dyax, Dynavax Technologies, Exelixis, Halozyme Therapeutics, Horizon Pharma, ImmunoGen, Ironwood Pharmaceuticals, Isis Pharmaceuticals, Momenta Pharmaceuticals, Nektar Therapeutics, Neurocrine Biosciences, PDL BioPharma, Repligen and Theravance.

The selected companies in our peer group are companies that fall within a reasonable range of comparison factors and/or that we may compete with for executive talent. In addition to the criteria related to finding companies with similar business models and at a similar stage of development as Ligand, the other criteria used in the identification and selection of the peer group included business/labor market competitors in the biotechnology industry similar in size and complexity to us, companies with market values between \$560 million and \$5.5 billion (based on trading values in December 2015 when the peer group was selected) and companies with products in comparable stages of development to our products. We also focused on companies with multiple product candidates, as opposed to single product companies. The peer group was not selected on the basis of executive compensation levels. The peer group revisions from the 2015 peer group were intended to ensure that the peer group more accurately reflects companies that are our peers in terms of our current business model and stage of development, including the number of programs maintained by the Company and the importance of licensing to the Company's business model.

The peer group compensation data is limited to publicly available information and therefore does not provide precise comparisons by position as offered by more comprehensive survey data. The survey data, however, can be used to provide pooled compensation data for positions closely akin to those held by each named executive officer. In addition, the pool of senior executive talent from which we draw and against which we compare ourselves extends beyond the limited community of our immediate peer group and includes a wide range of other organizations outside of our traditional competitors, which range is represented by such surveys. As a result, the compensation committee uses peer group data to analyze the overall competitiveness of our compensation with our direct publicly traded peers in the United States and our general compensation philosophy, and to determine equity award levels for the named executive officers, but also relies on industry survey data in determining actual executive compensation. For purposes of this compensation discussion and analysis, references to our "peer group" include both the peer group of companies

listed above and the survey data reviewed by our compensation committee.

The compensation committee has adopted a compensation philosophy that places a greater emphasis on long-term equity incentive compensation for our named executive officers than cash compensation. As a result, the compensation committee generally sets target total cash compensation below the median (e.g., at approximately the 25th percentile) of executive officers performing similar job functions at companies in our peer group. At the same time, the compensation committee emphasizes long-term equity incentive compensation by setting target equity compensation above the median of executive officers performing similar job functions at companies in our peer group. However, we strongly believe in retaining the best talent among our senior executive management team and while we believe that comparisons to market data are a useful tool, we do not believe that it is appropriate to establish executive compensation levels based solely on a comparison to data from

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these companies. Therefore, the compensation committee may approve total compensation packages for senior executive management that vary from the foregoing positioning based on several factors, including overall experiences, accumulated years of service with us, level of responsibilities and/or performance ratings. Our 2016 total compensation for our named executive officers was generally consistent with the foregoing compensation philosophy.

In addition, the mix of compensation paid to our named executive officers is intended to ensure that total compensation reflects our overall success or failure, including our long-term stock performance, and to motivate executive officers to meet appropriate performance measures. In determining each element of compensation for any given year, our compensation committee considers and determines each element individually and then reviews the resulting total compensation and determines whether it is reasonable and competitive. We do not have a pre-established policy or target for the allocation between either cash and non-cash or short-term and long-term incentive compensation.

The compensation levels of our named executive officers reflect to a significant degree their varying roles and responsibilities. Mr. Higgins, in his role as chief executive officer, has the greatest level of responsibility among our named executive officers and, therefore, receives the highest level of pay. This is also consistent with the practices of the companies in our peer group and the summary compensation data included in the summaries of comparable companies reviewed by our compensation committee.

#### Base Compensation

As discussed above, the Company provides its named executive officers with a base salary that approximates the 25<sup>th</sup> percentile for similar positions at our peer group, but may vary from such level based on:

- industry experience, knowledge and qualifications;
- the salary levels in effect for comparable positions within the Company's principal industry marketplace competitors; and
- internal comparability considerations.

As a general matter, the base salary for each executive officer is initially established through negotiation at the time the officer is hired, taking into account the officer's qualifications, experience, prior salary and competitive salary information. Increases in base salary from year to year are based upon the performance of the executive officers as well as market positioning considerations, as assessed by the chief executive officer (for executives other than himself) and approved by the compensation committee. The compensation committee assesses these factors with respect to the chief executive officer.

During 2016, our named executive officers received increases to their base salaries of between 4% and 9%, as follows: Mr. Higgins, 4.6% increase; Mr. Foehr, 4.1% increase; Mr. Korenberg, 8.6% increase; and Mr. Berkman, 6.5% increase. These increases were determined to be appropriate by our compensation committee to ensure that the base salaries of our named executive officers continued to be generally consistent with our pay positioning philosophy, as described above. Base salaries paid to our named executive officers for 2016 are disclosed below in the table entitled "Summary Compensation Table."

#### Performance-Based Compensation

##### Annual Performance-Based Cash Compensation

It is the compensation committee's objective to have a substantial portion of each named executive officer's compensation contingent upon the Company's performance. For each of our named executive officers, all of his annual bonus compensation is dependent on the Company's performance relative to specified performance objectives.

The annual performance-based bonus program consists of a cash award if certain corporate performance objectives are satisfied. The Company sets annual incentive targets so that each executive's total target cash compensation (inclusive of base salary) approximates the 25<sup>th</sup> percentile of target total cash opportunities offered by our peer group. Under the

Company's 2016 program, the potential performance bonus for the chief executive officer is up to 75% of base salary, 50% of base salary for Mr. Foehr, and 40% of base salary for the other named executive officers.

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In determining the performance compensation awarded to each named executive officer, the Company evaluates the Company's performance in a number of areas. At the beginning of each year, our board of directors sets corporate objectives for the year. These objectives are set by the board of directors after considering management input and our overall strategic objectives. These objectives generally relate to factors such as strategic objectives, achievement of product development objectives, establishment of new collaborative arrangements and general operational goals. Following the conclusion of each year, the compensation committee determines the level of achievement for each year relative to these corporate objectives. This achievement level is then applied to each named executive officer's target bonus to determine that year's total annual bonus. The compensation committee retains the discretion to reduce the final bonus payout to a named executive officer.

At the beginning of 2016, our board of directors, with input provided by our named executive officers, established our Company goals for the year. The compensation committee then reviewed and considered a proposed Company-wide (including named executive officers) bonus program in view of the Company goals, including the proportional emphasis to be placed on each objective annual bonus determination purposes.

The Company goals approved by the compensation committee for 2016 for purposes of annual bonus achievement included:

Business Development Goals (40% Weighting)

• Complete at least nine licensing deals

• Evaluate and, if appropriate, pursue potential acquisitions

Goals Related to OmniAb Business (25% Weighting)

• Successfully integrate the OMT business

• Increase customer service and awareness of OmniAb platform via successful partner meetings, publications and presentations

• Evaluate and reduce risks related to OmniAb business

• Expand intellectual property and scientific offering to clients through development of new platforms, expansion of available antibody services

Goals Related to Optimization of Captisol Business (20% Weighting)

• Manage current business to maximize revenue and manage competitive threats

• Expand existing relationships and generate at least 40 new research contracts, expand customer sample requests to new annual highs

• Extend and expand key manufacturing relationships

• Expand intellectual portfolio to further leverage additional uses

Goals Related to GRA Phase 2 Trial (5% Weighting)

• Successful project management of the Glucagon Receptor Antagonist Phase 2 clinical trial

Operational Goals (10% Weighting)



• Deliver superior partner customer service focused on information timeliness, technical support, issue resolution and commercial planning

• Organizational staff planning and expansion and improvement of data management systems

• Effective financial and administrative management and tax planning

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In evaluating management's performance against our 2016 corporate objectives in January 2017, our compensation committee determined to award a corporate achievement level of 90% relative to those objectives. This determination was made in the discretion of the compensation committee after its review of our overall corporate performance relative to each of the objectives listed above. In general, quantitative objectives were not established for most of the corporate objectives during 2016. Instead these performance objectives were used as a guide by the compensation committee in determining overall corporate performance as they represented those areas in which the named executive officers and our employees generally were expected to focus their efforts.

With respect to the business development goals, the compensation committee awarded full credit, for an achievement level of 100%, noting that in 2016, the Company completed nine new licensing deals that increased the Company's shots-on-goal portfolio by at least 14. The Company also completed the acquisition of the portfolio of certain royalty and milestone right from CorMatrix in May 2016.

With respect to the goals related to our OmniAb business, the compensation committee awarded full credit, for an achievement level of 100%, noting our successful integration of the OMT business, the launch of the new OmniAb.com website, the hosting of OmniAb specific events and presentations, the implementation of customer surveying, the implementation of various risk reduction strategies and additional intellectual property achievements.

With respect to the goals related to the optimization of our Captisol business, the compensation committee awarded partial credit, for an achievement level of 75%, noting that the Company entered into 81 new Captisol research contracts. The Company worked with key vendors and partners to maximize revenue potential and volatility, had new patents issued and expanded key manufacturing relationships and improved manufacturing efficiencies.

With respect to the goal related to successful project management of the Glucagon Receptor Antagonist Phase 2 clinical trial, the compensation committee awarded full credit, for an achievement level of 100%, noting that the trial was initiated on time and the program remains on budget.

With respect to the operational goals, which were entirely qualitative goals and not objectively determinable, the compensation committee determined an overall achievement level of 50% was appropriate given its subjective determination of the Company's overall performance in this area during 2016. The compensation committee noted that in 2016, the Company was cash-flow positive for the fifth consecutive year. The Company effectively managed its customer service operations, expanded the finance team and implemented a new data management system.

As a result of the foregoing determinations, all of our named executive officers received bonus awards equal to 90% of their target awards.

The actual bonus awards paid to our named executive officers for 2016 are disclosed below in the table entitled "Summary Compensation Table."

Long-Term Performance-Based Equity Incentive Program

In accordance with our compensation philosophy, the Company's longer-term performance-based compensation is based on equity ownership. The Company believes that equity ownership in the Company is important to tie the ultimate level of an executive officer's compensation to the performance of the Company's stock and stockholder gains while creating an incentive for sustained growth.

We generally provide equity compensation to our named executive officers through grants of stock options, performance stock units and restricted stock units. The grants are designed to align the interests of our named executive officers with those of the stockholders and provide each individual with a significant incentive to manage

the Company from the perspective of an owner with an equity stake in the business. The compensation committee views granting options and restricted stock unit awards as a retention device and therefore also reviews the status of vesting and number of vested versus unvested options and restricted stock unit awards at the time of grant. Guidelines for the number of stock options and restricted stock unit awards granted to each executive officer are determined using a procedure approved by the compensation committee based upon several factors, including the executive officer's level of responsibility, salary grade, performance and the value of the stock option and restricted stock unit awards at the time of grant. With respect to our named executive officers, we generally make awards to such officers at the time of initial hire based on an evaluation of the foregoing factors. Additional grants,

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other than the annual awards to executives, may be made following a significant change in job responsibility or in recognition of a significant achievement. Annual awards are made to our named executive officers when such awards are deemed appropriate by the compensation committee based on an evaluation of the foregoing factors.

Given the position of executive cash compensation relative to market (which is set at approximately the 25th percentile), our compensation committee has emphasized long-term equity incentive compensation to ensure total compensation is competitive. The long-term equity incentive awards granted to the named executive officers in 2016 were set at approximately the 75th percentile level of equity awards for similar positions at our peer group companies, adjusted using the above factors and taking into consideration such equivalency factors as our number of shares outstanding and market capitalization, compared to the peer group companies.

Time-based stock options granted under our 2002 Stock Incentive Plan, as amended (the "2002 Plan"), generally have a four-year vesting schedule designed to provide an incentive for continued employment. The options generally expire ten years from the date of the grant. This provides a reasonable time frame during which executive officers and other employees who receive grants can benefit from the appreciation of the Company's shares. The exercise price of options granted under our 2002 Plan, is equal to 100% of the fair market value of the underlying stock on the date of grant. Accordingly, the option will provide a return to the executive officer only if the market price of the shares appreciates over the option term. Time-based restricted stock unit awards generally vest in equal installments over three years. We also grant performance-based equity awards to our named executive officers.

Commencing in 2015, the compensation committee introduced performance-based restricted stock units as a component of our annual long-term equity incentive awards for our named executive officers. Since 2015, the "target" number of performance-based restricted stock units granted to our named executive officers each year has represented approximately 25% of the total value of the long-term equity incentive awards granted to our named executive officers. Of the remainder of the long-term equity incentive awards granted to our named executive officers, 50% of the total value of the long-term incentive awards is granted in the form of stock options that are subject to our standard four year vesting schedule, as described above, and 25% of the total value of the long-term incentive awards is granted in the form of restricted stock units that are subject to our standard three year vesting schedule, as described above.

#### 2016 Long-Term Incentive Awards.

In January 2016, our compensation committee awarded long-term incentive awards to our named executive officers as described in the Grants of Plan-Based Awards table below.

The time-based stock options and restricted stock units vest in accordance with the standard vesting schedules described above.

With respect to the performance-based restricted stock units granted in 2016, a named executive officer may earn up to 137.5% of the "target" number of performance-based restricted stock units based on performance relative to the performance objectives established for these awards. The performance-based restricted stock units will vest based on objectives related to our revenues for the two year performance period commencing January 1, 2016 and ending December 31, 2017 and our new OmniAb shots-on-goal transactions during the three year performance period commencing January 1, 2016 and ending December 31, 2018, with each such objective equally weighted (and a possible performance multiplier of 150% for "maximum" performance relative to the revenue objective and a possible performance multiplier of 125% for "maximum" performance relative to the OmniAb shots-on-goal transactions objectives). Threshold performance levels, below which no vesting will be awarded, were also established for each performance objective. The compensation committee selected the foregoing performance measures because they represent the key financial and operational performance metrics for which the executives are responsible, thereby creating the clearest link between executive actions, corporate results and continued long-term success for the

Company.

Vesting of 2015 Performance-Based Restricted Stock Units.

In January 2015, our named executive officers were granted performance-based restricted stock units. A named executive officer may earn up to 137.5% of the “target” number of performance-based restricted stock units based on performance relative to the performance objectives established for these awards. The performance-based restricted stock units will vest based on objectives related to our non-GAAP earnings per share growth for the two year performance period commencing January 1, 2015 and ending December 31, 2016 and our new shots-on-goal transactions during the three year performance

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period commencing January 1, 2015 and ending December 31, 2017, with each such objective equally weighted (and a possible performance multiplier of 150% for “maximum” performance relative to the non-GAAP earnings per share growth objective and a possible performance multiplier of 125% for “maximum” performance relative to the shots-on-goal transactions objectives). Threshold performance levels, below which no vesting will be awarded, were also established for each performance objective. The compensation committee selected the foregoing performance measures because they represent the key financial and operational performance metrics for which the executives are responsible, thereby creating the clearest link between executive actions, corporate results and continued long-term success for the Company.

In February 2017, the compensation committee certified our achievement relative to the non-GAAP earnings per share growth objective for purposes of the 2015 performance-based restricted stock units. The threshold, target and maximum performance levels for the non-GAAP earnings per share growth-based component of the awards were as follows: less than 35%, 0% payout; 35%, 50% payout; 45%, 100% payout; and equal to or greater than 55%, 150% payout. Our non-GAAP earnings per share growth for purposes of the 2015 performance-based restricted stock units for the two year performance period commencing January 1, 2015 and ending December 31, 2016 was 48%, resulting in a 115% payout with respect to these units. A reconciliation of non-GAAP earnings per share for this purpose to GAAP earnings per share is shown in Appendix A.

All of the equity awards granted to our named executive officers are disclosed below in the table entitled “Grants of Plan-Based Awards in Fiscal Year 2016.”

#### Other Elements of Compensation and Perquisites

We also provide our named executive officers and other employees the following benefits and perquisites.

**Medical Insurance.** The Company provides to each named executive officer, the named executive officer’s spouse and children such health, dental and vision insurance coverage as the Company may from time to time make available to its other executives of the same level of employment. The Company pays a portion of the premiums for this insurance for all employees.

**Life and Disability Insurance.** The Company provides each named executive officer such disability and/or life insurance as the Company in its sole discretion may from time to time make available to its other executive employees of the same level of employment. The Company pays the premiums for this life insurance coverage for the named executive officers.

**Defined Contribution Plan.** The Company and its designated affiliates offer the Section 401(k) Savings/Retirement Plan (the “401(k) Plan”), a tax-qualified retirement plan, to their eligible employees. The 401(k) Plan permits eligible employees to defer from 1% to 90% of their annual eligible compensation, subject to certain limitations imposed by the Internal Revenue Code. The employees’ elective deferrals are immediately vested and non-forfeitable in the 401(k) Plan. The Company also makes matching contributions to the 401(k) Plan. In 2016, the match was equal to \$0.40 per each \$1.00 contributed by an employee up to an annual maximum of \$4,800 per year.

**Employee Stock Purchase Plan.** The Company’s 2002 Employee Stock Purchase Plan, as amended, which is intended to qualify under Section 423 of the Internal Revenue Code, permits participants to purchase Company stock on favorable terms. Plan participants are granted a purchase right to acquire shares of common stock at a price that is 85% of the stock price on either the first day of the six month offering period or the stock price on the last day of the six month offering period, whichever is lower. The purchase dates occur on the last business days of December and June of each year. To pay for the shares, each participant may authorize periodic payroll deductions from 1% to 10% of his or her cash compensation, subject to certain limitations imposed by the Internal Revenue Code. All payroll deductions collected from the participant in an offering period are automatically applied to the purchase of common

stock on that offering period's purchase date provided the participant remains an eligible employee and has not withdrawn from the employee stock purchase plan prior to that date.

Other. The Company makes available certain other perquisites or fringe benefits to executive officers and other employees, such as tuition reimbursement, professional society dues and food and recreational fees incidental to official company functions, including board meetings. The aggregate of these other benefits was less than \$10,000 for each executive officer in the last fiscal year.

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### Severance and Change in Control Arrangements

We believe that reasonable severance benefits for our named executive officers are important because it may be difficult for our executive officers to find comparable employment within a short period of time following an involuntary termination of employment. We also believe that it is important to protect our named executive officers in the event of a change in control transaction involving us. In addition, it is our belief that the interests of stockholders will be best served if the interests of our senior management are aligned with them, and providing change in control severance benefits should eliminate, or at least reduce, the reluctance of senior management to pursue potential change in control transactions that may be in the best interests of stockholders. Accordingly, the severance arrangements we have entered into with each of our executive officers provide for severance benefits in specified circumstances, as well as benefits in connection with an involuntary termination following a change in control.

### Change in Control Arrangements

The Company has a change in control severance agreement with each of the named executive officers. In the event a named executive officer's employment is terminated by us without cause or he or she resigns for good reason within 24 months following a change in control of the Company, he or she will be eligible to receive a severance benefit equal to:

one times (two times for Mr. Higgins) the annual rate of base salary in effect for such officer at the time of involuntary termination; plus  
one times (two times for Mr. Higgins) the greater of: (a) the maximum target bonus for the fiscal year in which the termination occurs; or (b) the maximum target bonus for the fiscal year in which the change in control occurs, if different; plus  
twelve (twenty-four for Mr. Higgins) multiplied by the monthly premium the executive would be required to pay for continued health coverage for himself or herself and his or her eligible dependents.

The foregoing severance amount will be payable in a lump sum following the officer's termination of employment, subject to the officer's execution of a general release of claims acceptable to us.

The change in control severance agreements also provide that all of a named executive officer's outstanding stock awards will vest in the event of such a termination. In addition, the post-termination exercise period of a named executive officer's stock options will be extended from three months to the date that is nine months following the date of termination (but in no event beyond the original expiration date of such options).

For purposes of the change in control severance agreements, an involuntary termination is either a termination of a named executive officer's employment by us without cause or his resignation for good reason. "Cause" is generally defined as an officer's conviction of, or plea of "guilty" or "no contest" to, a felony under the laws of the United States or any state thereof, an officer's willful and material breach of any obligation or duty under the employment agreement, the Company's confidentiality and proprietary rights agreement or the Company's written employment or other written policies that have previously been furnished to the officer, which breach is not cured within 30 days after written notice thereof is received by the officer, if such breach is capable of cure, the officer's gross negligence or willful misconduct, including without limitation, fraud, dishonesty or embezzlement, in the performance of his duties, or the officer's continuing failure or refusal to perform his assigned duties or to comply with reasonable directives of the board of directors that are consistent with the officer's job duties (which directives are not in conflict with applicable law), which failure is not cured within 30 days after written notice thereof is received by the officer.

For purposes of the change in control severance agreements, "good reason" is generally defined as a material diminution in the officer's authority, duties or responsibilities, a material diminution in the officer's base compensation, a material change in the geographic location at which the officer must perform his duties, or any other action or inaction that



constitutes a material breach by the Company or any successor or affiliate of its obligations to the officer under the employment agreement. An officer must provide written notice to the Company of the occurrence of any of the foregoing events or conditions without his written consent within 90 days of the occurrence of such event. The Company will have a period of 30 days to cure such event or condition after receipt of written notice of such event from the officer. Any voluntary termination of an officer's employment for "good reason" must occur no later than the date that is six months following the initial occurrence of one of the foregoing events or conditions.

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For purposes of the change in control severance agreements, a “change in control” has generally the same definition as given to such term under our 2002 Plan, as described below.

#### Amended and Restated Severance Plan

We maintain the Ligand Pharmaceuticals Incorporated Amended and Restated Severance Plan to provide severance payments to our employees and the employees of our subsidiaries upon an involuntary termination of employment without cause. Each of the named executive officers is eligible to participate in the severance plan, provided that he or she is not subject to disciplinary action or a formal performance improvement plan at the time of termination. However, if, as a result of his or her involuntary termination by us without “cause,” a named executive officer would be eligible to receive severance under any individual change in control severance agreement, employment agreement or other arrangement providing severance benefits, as approved by our board of directors or a committee thereof, such named executive officer will not be eligible for benefits under the severance plan.

Under the terms of the severance plan, a named executive officer will be eligible to receive (1) a lump sum payment in cash for his fully earned but unpaid base salary and accrued but unused vacation through the date of termination, (2) an amount equal to his base salary for the severance period, which period will be equal to (a) two months plus (b) one week for each year of service as of the date of termination and (c) continued health coverage at the same cost as was in effect for the named executive officer at the date of termination throughout such severance period, provided that such named executive officer elects continued coverage under COBRA. The foregoing cash severance benefit will be payable in a lump sum following the officer’s termination of employment, subject to the officer’s execution of a general release of claims acceptable to us.

For purposes of the severance plan, “cause” is generally defined as an officer’s conviction of (or entry of a plea of no contest to) any felony or any other criminal act, an officer’s commission of any act of fraud or embezzlement, an officer’s unauthorized use or disclosure of confidential or proprietary information or trade secrets of the Company or our subsidiaries, or an officer’s commission of any material violation of the Company’s policies, or an officer’s commission of any other intentional misconduct which adversely affects the business or affairs of the Company in a material manner.

#### Change in Control Acceleration of Equity Awards

Equity awards granted under the 2002 Plan to the named executive officers may be subject to accelerated vesting in the event of a “change in control.”

Equity award agreements under the 2002 Plan, which cover each of the named executive officers, provide that such equity awards will automatically vest in the event of a “change in control” where the option is not assumed or replaced by a successor.

Under the 2002 Plan, a “change in control” is generally defined as:

- a merger, consolidation or reorganization of the Company in which 50% or more of its voting securities change ownership;
- the sale, transfer or other disposition of all or substantially all of the Company’s assets in complete liquidation or dissolution of the Company; or
- a change in control of the Company effected through a successful tender offer for more than 50% of the Company’s outstanding common stock or through a change in the majority of our board of directors as a result of one or more contested elections for board membership.

In addition, the performance-based restricted stock units granted to the named executive officers in 2016 contain additional vesting provisions that will apply in the event of a change in control. In the event of a change in control

prior to December 31, 2017, the number of performance-based restricted stock units in which a named executive will be eligible to vest under each performance-based restricted stock unit will be set at the “target” number of restricted stock units, which “target” restricted stock units will continue to be eligible to vest based solely on the participant’s continued employment or service, with 50% of such “target” units vesting on December 31, 2017 and 50% of such “target” units vesting on December 31, 2018. In the event of a change in control after December 31, 2017 but prior to December 31, 2018, the remaining number of restricted stock units in which a participant will be eligible to vest under each performance-based restricted stock unit will be

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set at 50% of the “target” number of restricted stock units, which “target” restricted stock units will continue to be eligible to vest based solely on the participant’s continued employment or service through December 31, 2018.

Further, the performance-based restricted stock units granted to the named executive officers in 2015 contain additional vesting provisions that will apply in the event of a change in control. In the event a change in control had occurred prior to December 31, 2016, the number of performance-based restricted stock units in which a named executive would have been eligible to vest under each performance-based restricted stock unit would have been set at the “target” number of restricted stock units, which “target” restricted stock units would have continued to be eligible to vest based solely on the participant’s continued employment or service, with 50% of such “target” units vesting on December 31, 2016 and 50% of such “target” units vesting on December 31, 2017. In the event of a change in control after December 31, 2016 but prior to December 31, 2017, the remaining number of restricted stock units in which a participant will be eligible to vest under each performance-based restricted stock unit will be set at 50% of the “target” number of restricted stock units, which “target” restricted stock units will continue to be eligible to vest based solely on the participant’s continued employment or service through December 31, 2017.

#### Policies Regarding Tax Deductibility of Compensation

Section 162(m) of the Internal Revenue Code restricts the ability of publicly held companies to take a federal income tax deduction for compensation paid to certain of their executive officers to the extent that compensation exceeds \$1.0 million per covered officer in any fiscal year. However, this limitation does not apply to compensation that is “qualified performance-based compensation” under Section 162(m) of the Internal Revenue Code. While we consider the tax deductibility of each element of executive compensation as a factor in our overall compensation program, the compensation committee retains the discretion to approve compensation that may not qualify for the compensation deduction if, in light of all applicable circumstances, it would be in our best interest for such compensation to be paid without regard to whether it may be tax deductible.

#### Risk Assessment of Compensation Policies and Programs

In March 2017, management and Radford assessed our compensation policies and programs for all employees for purposes of determining the relationship of such policies and programs and the enterprise risks faced by the Company and presented its assessment to our compensation committee. Based on these assessments, management recommended, and the compensation committee concluded, that none of our compensation policies or programs create risks that are reasonably likely to have a material adverse effect on the Company. In connection with their review, management and the compensation committee noted certain key attributes of our compensation policies and programs that help to reduce the likelihood of excessive risk taking, including:

- The program design provides a balanced mix of cash and equity compensation, fixed and variable compensation and annual and long-term incentives.
- Corporate performance objectives are designed to be consistent with the Company’s overall business plan and strategy, as approved by the board of directors.
- The determination of executive incentive awards is based on a review of a variety of indicators of performance, reducing the risk associated with any single indicator of performance.
- The Company’s equity awards generally vest over multi-year periods.
- The compensation committee has the right to exercise negative discretion over executive annual incentive plan payments.

## Summary Compensation Table

The following table provides information regarding the compensation earned by our named executive officers during the fiscal years ended December 31, 2016, 2015 and 2014

Name and Principal Position	Year	Salary(\$)	Stock Awards (\$) <sup>(1)</sup>	Option Awards (\$) <sup>(1)</sup>	Non-Equity Incentive Plan Compensation (\$) <sup>(2)</sup>	All Other Compensation (\$) <sup>(3)</sup>	Total
John L. Higgins, Chief Executive Officer	2016	573,958	1,992,215	2,393,068	387,421	5,978	5,352,640
	2015	547,336	1,794,131	1,810,851	392,029	6,369	4,550,716
	2014	510,198	595,360	4,552,951	383,097	5,650	6,047,256
Matthew W. Foehr, President and Chief Operating Officer	2016	429,292	973,888	1,169,942	193,181	74,954 <sup>(4)</sup>	2,841,257
	2015	410,472	1,250,322	1,356,995	196,000	143,501 <sup>(5)</sup>	3,357,290
	2014	375,360	372,100	3,115,177	187,900	5,400	4,055,937
Matthew Korenberg, Vice President, Finance and Chief Financial Officer	2016	378,750	664,015	797,704	118,500	7,872	1,966,841
	2015	140,673	1,255,080	1,340,490	56,269	5,464	2,797,976
Charles S. Berkman, Vice President and General Counsel	2016	329,167	376,275	452,035	136,350	6,343	1,300,170
	2015	308,592	512,641	517,400	117,882	5,937	1,462,452
	2014	288,938	186,050	958,516	115,711	5,700	1,554,915

Reflects the grant date fair value for stock and option awards granted in 2014, 2015 and 2016, calculated in accordance with FASB ASC Topic 718. The assumptions used to calculate the value of stock and option awards are set forth under Note 8 of the Notes to Consolidated Financial Statements included in our Annual Report on Form 10-K for the year ended December 31, 2016, filed with the SEC on February 28, 2017. With respect to the restricted stock unit awards included in the Summary Compensation Table that were granted during 2016 with

(1) performance-based vesting conditions, these amounts include the grant date fair values attributable to performance-based restricted stock units granted to each of the named executive officers based on the estimated probable outcome of the performance based objectives applicable to such awards on the grant date. The full grant date fair value of the performance-based restricted stock units awarded to our named executive officers during fiscal year 2016, assuming maximum achievement of the applicable performance objectives is as follows: Mr. Higgins \$1,369,659, Mr. Foehr \$669,548, Mr. Korenberg \$456,510, Mr. Berkman \$258,700.

(2) Represents performance bonus awards under the management bonus plan earned in 2014, 2015 and 2016, but paid in the subsequent year.

(3) With the exception of Mr. Foehr in 2015 and 2016, represents life insurance premiums paid by the Company for each year represented in the table and \$4,800 in 401(k) matching funds paid by the Company for each named executive officer.

(4) Pursuant to the management rights letter between Viking Therapeutics, Inc. ("Viking"), and the Company dated May 21, 2014, the Company nominated Mr. Foehr to serve as a member of Viking's board of directors. During 2016, in connection with Mr. Foehr's service as a director of Viking, Mr. Foehr received (1) \$33,170 in cash payments and (2) \$36,084 in option awards (representing the aggregate grant date fair value of the option awards as reported by Viking, computed in accordance with authoritative accounting guidance). Additionally, Mr. Foehr received life insurance premiums paid by the Company for 2016 of \$600, taxable fringe benefits of \$419 and \$4,800 in 401(k) matching funds paid by the Company in 2016.

(5) During 2015, in connection with Mr. Foehr's service as a director of Viking, Mr. Foehr received (1) \$22,113 in cash payments and (2) \$115,569 in option awards (representing the aggregate grant date fair value of the option

awards as reported by Viking, computed in accordance with authoritative accounting guidance). Additionally, Mr. Foehr received life insurance premiums paid by the Company for 2015 of \$600, taxable fringe benefits of \$419 and \$4,800 in 401(k) matching funds paid by the Company in 2015.

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## Grants of Plan-Based Awards in Fiscal Year 2016

The following table summarizes plan-based awards granted to our named executive officers during the last fiscal year.

Name	Grant Date	Date of Board Action approving Award	Estimated Future Payouts Under Non-Equity Incentive Plan Awards <sup>(1)</sup>		Estimated Future Payouts Under Equity Incentive Plan Awards <sup>(2)</sup>			All Other Stock Awards: Number of Shares of Stock or Units <sup>(3)</sup>	All Other Awards: Number of Securities Underlying Options <sup>(4)</sup>	Exercise Base Price of Awards <sup>(5)</sup>	Grant Date Fair Value of Option Stock and Awards <sup>(5)</sup>
			Threshold Target (\$)	Maximum Target (\$)	Times Target (#)	Maximum Target (#)	Maximum Target (#)				
John L. Higgins	1/18/16	1/18/16	431,250	—	—	—	—	—	—	—	—
	2/11/16	1/18/16	—	—	7,257	11,611	15,965	—	—	—	996,108
	2/11/16	1/18/16	—	—	—	—	—	11,611	—	—	996,108
	2/11/16	1/18/16	—	—	—	—	—	—	55,391	85.79	2,393,068
Matthew W. Foehr	1/18/16	1/18/16	215,000	—	—	—	—	—	—	—	—
	2/11/16	1/18/16	—	—	3,548	5,676	7,804	—	—	—	486,944
	2/11/16	1/18/16	—	—	—	—	—	5,676	—	—	486,944
	2/11/16	1/18/16	—	—	—	—	—	—	27,080	85.79	1,356,995
Matthew Korenberg	1/18/16	1/18/16	152,000	—	—	—	—	—	—	—	—
	2/11/16	1/18/16	—	—	2,419	3,870	5,321	—	—	—	332,007
	2/11/16	1/18/16	—	—	—	—	—	3,870	—	—	332,007
	2/11/16	1/18/16	—	—	—	—	—	—	18,464	85.79	797,704
Charles S. Berkman	1/18/16	1/18/16	132,000	—	—	—	—	—	—	—	—
	2/11/16	1/18/16	—	—	1,370	2,193	3,015	—	—	—	188,137
	2/11/16	1/18/16	—	—	—	—	—	2,193	—	—	188,137
	2/11/16	1/18/16	—	—	—	—	—	—	10,463	85.79	452,035

(1) Represents the target cash bonus awards granted under our annual performance bonus program. Actual bonus amounts paid are reflected in the Summary Compensation Table above.

(2) The performance-based restricted stock units will vest based on objectives related to our revenue growth for the two year performance period commencing January 1, 2016 and ending December 31, 2017 and our OmniAb new shots-on-goal transactions during the two year performance period commencing January 1, 2016 and ending December 31, 2018, with each such objective equally weighted (and a possible performance multiplier of 150% for “maximum” performance relative to the revenue growth objectives and a possible performance multiplier of 125% for “maximum” performance relative to the OmniAb new shots-on-goal transactions objectives). Threshold performance levels, below which no vesting will be awarded, were also established for each performance objective.

For a description of the change in control provisions applicable to the foregoing equity award, see “Severance and Change in Control Arrangements” above.

The restricted stock unit awards granted to the named executive officers vest in equal installments over a three year (3) period. For a description of the change in control provisions applicable to the foregoing equity awards, see “Severance and Change in Control Arrangements” above.

Each option grant to the named executive officers vests 12.5% after six months from grant and the remainder in 42 (4) equal monthly installments. For a description of the change in control provisions applicable to the foregoing equity awards, see “Severance and Change in Control Arrangements” above.

Represents the fair value of the stock option or stock award at the time of grant as determined in accordance with (5) the provisions of FASB ASC Topic 718. The assumptions used to calculate the value of stock and option awards are set forth under Note 8 of the Notes to Consolidated Financial Statements included in our Annual Report on Form 10-K for the year ended December 31, 2016, filed with the

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SEC on February 28, 2017. With respect to awards, the vesting of which is performance-based, the grant date fair value is based on the estimated probable outcome of the performance objectives applicable to such awards on the grant date.

Outstanding Equity Awards at Fiscal Year-End

The following table provides information on all stock and option awards held by the named executive officers of the Company as of December 31, 2016. All outstanding equity awards are in shares of the Company's common stock.

Name	Option Awards					Stock Awards			Equity Incentive Plan Awards: Number of Unearned Shares, Other Rights That Have Not Vested (#)	Equity incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Other Rights That Have Not Vested (\$) <sup>(3)</sup>
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable	Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Options (#)	Option Exercise Price	Option Expiration Date	Number of Shares or Units of Stock That Have Not Vested (#)	Market Value of Stock That Have Not Vested (\$) <sup>(2)</sup>	Equity Incentive Plan Awards: Number of Unearned Shares, Other Rights That Have Not Vested (#)		
John L. Higgins	27,149	—	—	21.00	2/22/2018	—	—	—	—	
	62,444	—	—	16.14	2/14/2019	—	—	—	—	
	48,125	—	—	9.96	2/14/2020	—	—	—	—	
	110,332	—	—	10.05	2/16/2021	—	—	—	—	
	160,666	—	—	14.47	2/8/2022	—	—	—	—	
	102,542	4,458	—	21.92	2/15/2023	—	—	—	—	
	14,334	—	—	32.00	6/3/2023	—	—	—	—	
	53,125	21,875	—	74.42	2/11/2024	—	—	—	—	
	20,000	—	—	74.42	2/11/2024	—	—	—	—	
	25,758	30,440	—	56.26	2/10/2025	—	—	—	—	
	11,540	43,851	—	85.79	2/11/2026	—	—	—	—	
—	—	—	—	—	24,907 <sup>(4)</sup>	2,530,800	—	—		
—	—	—	—	—	15,945 <sup>(5)</sup>	1,620,171	7,972 <sup>(5)</sup>	810,035		
—	—	—	—	—	—	—	11,161 <sup>(6)</sup>	1,134,069		
Matthew W. Foehr	51,734	—	—	9.97	4/17/2021	—	—	—	—	
	60,000	—	—	14.47	2/8/2022	—	—	—	—	
	69,958	3,042	—	21.92	2/15/2023	—	—	—	—	
	51,875	13,125	—	74.42	2/11/2024	—	—	—	—	
	19,302	22,811	—	56.26	2/10/2025	—	—	—	—	
	5,642	21,438	—	85.79	2/11/2026	—	—	—	—	
	—	—	—	—	—	16,083 <sup>(7)</sup>	1,634,194	—	—	
—	—	—	—	—	9,112 <sup>(5)</sup>	925,870	4,556 <sup>(5)</sup>	462,935		
—	—	—	—	—	—	—	5,676 <sup>(6)</sup>	576,738		
Matthew Korenberg	8,333	16,667	—	104.59	8/5/2025	—	—	—	—	

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	3,847	14,617	—	85.79	2/11/2026	—	—	—	—
	—	—	—	—	—	7,870 <sup>(8)</sup>	799,671	—	—
	—	—	—	—	—	6,000 <sup>(5)</sup>	609,660	3,000 <sup>(5)</sup>	304,830
	—	—	—	—	—	—	—	3,870 <sup>(6)</sup>	393,231
Charles S. Berkman	4,688	—	—	14.47	2/8/2022	—	—	—	—
	4,492	833	—	21.92	2/15/2023	—	—	—	—
	2,083	5,833	—	74.42	2/11/2024	—	—	—	—
	1,672	8,697	—	56.26	2/10/2025	—	—	—	—
	2,180	8,283	—	85.79	2/11/2026	—	—	—	—
	—	—	—	—	—	6,063 <sup>(9)</sup>	616,061	—	—
	—	—	—	—	—	4,556 <sup>(5)</sup>	462,935	2,728 <sup>(5)</sup>	231,468
	—	—	—	—	—	—	—	2,193 <sup>(6)</sup>	222,831

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- (1) Each option grant to the named executive officers has a ten year term from the date of grant. Except as described below, each option vests 12.5% after six months from grant and the remainder in 42 equal monthly installments. For a description of the change in control provisions applicable to the stock option awards, see “Severance and Change in Control Arrangements” above.

- (2) Except as described in footnotes 5 and 6 below, the restricted stock unit awards granted to the named executive officers vest in equal installments over a three year period following the date of grant. For a description of the change in control provisions applicable to the stock awards, see “Severance and Change in Control Arrangements” above.

- (3) Computed by multiplying the closing market price of our common stock on December 30, 2016, the last trading day of 2016, of \$101.61, by the number of shares of common stock subject to such award.

- (4) The table above reflects the remaining unvested restricted stock units from the following grants of restricted stock units to Mr. Higgins, which vest in equal installments over a three year period from the date of grant: 2,666 unvested restricted stock units granted on February 12, 2014, 10,630 unvested restricted stock units granted on February 10, 2015, and 11,611 unvested restricted stock units granted on February 11, 2016. For a description of the change in control provisions applicable to the stock awards, see “Severance and Change in Control Arrangements” above.

- (5) Represents the performance-based restricted stock units granted to the named executive officer in 2015. A named executive officer may earn up to 137.5% of the “target” number of performance-based restricted stock units based on performance relative to the performance objectives established for these awards. The performance-based restricted stock units granted in 2015 will vest based on objectives related to our non-GAAP earnings per share growth for the three year performance period commencing January 1, 2015 and ending December 31, 2016, and our new shots-on-goal transactions during the three year performance period commencing January 1, 2015 and ending December 31, 2017, with each such objective equally weighted (and a possible performance multiplier of 150% for “maximum” performance relative to the non-GAAP earnings per share objective and a possible performance multiplier of 125% for “maximum” performance relative to the shots-on-goal transactions objective).

In February 2017, the compensation committee certified our achievement relative to the non-GAAP earnings per share growth objectives for purposes of the 2015 performance-based restricted stock units. The threshold, target and maximum performance levels for the non-GAAP earnings per share growth-based component of the awards were as follows: less than 35%, 0% payout; 35%, 50% payout; 45%, 100% payout; and equal to or greater than 55%, 150% payout. Our non-GAAP earnings per share growth for purposes of the 2015 performance-based restricted stock units for the two year performance period commencing January 1, 2015 and ending December 31, 2016 was 48%, resulting in a 115% of “target” payout with respect to the units eligible to vest based on the non-GAAP earnings per share growth objectives. The performance condition applicable to these awards was satisfied as of December 31, 2016, although they did not vest, by their terms, until our compensation committee’s certification of such results in February 2017. The actual number of units that vested in February 2017 are reported in the column titled “Number of Shares or Units of Stock That Have Not Vested” above with respect to the portion of the 2015 awards tied to non-GAAP earnings per share growth as follows: Mr. Higgins, 9,168; Mr. Foehr, 5,239; Mr. Korenberg, 3,450; and Mr. Berkman, 2,619.

The “target” number of performance-based restricted stock units granted to the named executive officers in 2015 that remain eligible to vest based on the shots-on-goal transaction objective are reported in the column titled “Equity Incentive Plan Awards: Number of Unearned Shares, Units or Other Rights That Have Not Vested” above as follows: Mr. Higgins, 7,972; Mr. Foehr, 4,556; Mr. Korenberg, 3,000; and Mr. Berkman, 2,278.

Represents the “target” number of performance-based restricted stock units granted to the named executive officer in 2016. The performance-based restricted stock units granted in 2016 will vest based on objectives related to our revenue growth for the two year performance period commencing January 1, 2016 and ending December 31, 2017 and our OmniAb new shots-on-goal transactions during the two year performance period commencing January 1, 2016 and ending December 31, 2018 with each such objective equally weighted (and a possible performance multiplier of 150% for “maximum” performance relative to the revenue growth objective and a possible performance multiplier of 125% for “maximum” performance relative to the OmniAb shots-on-goal transactions objective). Threshold performance levels, below which no vesting will be awarded, were also established for each performance objective. For a description of the change in control provisions applicable to the foregoing equity awards, see “Severance and Change in Control Arrangements” above. The “target” number of performance-based restricted stock units granted to each of the named executive officers reflected in the column above are as follows: Mr. Higgins, 11,611; Mr. Foehr, 5,676; Mr. Korenberg, 3,870; and Mr. Berkman, 2,193.

(6) The table above reflects the remaining unvested restricted stock units from the following grants of restricted stock units to Mr. Foehr, which vest in equal installments over a three year period: 1,666 unvested restricted stock units granted on February 12, 2014, 8,741 unvested restricted stock units granted on February 10, 2015, and 5,676 unvested restricted stock units granted on February 11, 2016. For a description of the change in control provisions applicable to the stock awards, see “Severance and Change in Control Arrangements” above.

(7) The table above reflects the remaining unvested restricted stock units from the following grants of restricted stock units to Mr. Korenberg: 4,000 unvested restricted stock units granted on August 5, 2015, and 3,870 unvested restricted stock units granted February 11, 2016. For a description of the change in control provisions applicable to the stock awards, see “Severance and Change in Control Arrangements” above.

(8) The table above reflects the remaining unvested restricted stock units from the following grants of restricted stock units to Mr. Berkman, which vest in equal installments over a three year period: 833 unvested restricted stock units granted on February 12, 2014, 3,037 unvested restricted stock units granted on February 10, 2015, and 2,193 unvested restricted stock units granted on February 11, 2016. For

a description of the change in control provisions applicable to the stock awards, see “Severance and Change in Control Arrangements” above.

Option Exercises and Stock Vested During Fiscal Year 2016

The following table provides information on stock option exercises and stock vesting in fiscal 2016 by the named executive officers of the Company.

Name	Option Awards		Stock Awards	
	No. of Shares Acquired on Exercise (#)	Value Realized Upon Exercise (\$) <sup>(1)</sup>	Number of Shares Acquired on Vesting (#)	Value Realized on Vesting (\$) <sup>(2)</sup>
John L. Higgins	6,000	469,500	10,648	915,409
Matthew W. Foehr	25,275	2,596,826	8,038	691,027
Matthew Korenberg	—	—	2,000	246,600
Charles S. Berkman	30,347	2,076,803	3,185	273,814

(1) The value realized upon exercise of stock options reflects the price at which shares acquired upon exercise of the stock options were sold or valued for income tax purposes, net of the exercise price for acquiring the shares.

(2) Computed by multiplying the closing market price of our restricted stock on the vesting date by the number of shares of restricted stock subject to such award vesting on the applicable vesting date.

Potential Payments Upon Termination or Change in Control

The following table summarizes potential change in control and severance payments to each named executive officer as of December 31, 2016. The three right-hand columns describe the payments that would apply in three different potential scenarios—a termination without cause prior to a change in control or more than 24 months following a change in control; a change in control without a termination of employment; or a termination of employment as a result of the named executive officer’s resignation for good reason or termination of employment by us other than for cause, in each case within 24 months following a change in control. The table assumes that the termination or change in control occurred on December 31, 2016. For purposes of estimating the value of accelerated equity awards to be received in the event of a termination of employment or change in control, we have assumed a price per share of our common stock of \$101.61, which represents the closing market price of our common stock as reported on the NASDAQ Global Market on December 30, 2016, the last trading day of 2016. All cash severance benefits will be paid in a lump sum.

Name	Benefit	Termination Without Cause; No Change of Control (\$)	Change of Control; No Termination (\$) <sup>(1)</sup>	Termination Without Cause or Resignation within 24 Months Following a Change of Control (\$) <sup>(2)</sup>
John L. Higgins	Salary	206,410	—	1,150,000
	Bonus	—	—	862,500
	Option acceleration	—	3,024,216	3,024,216
	Stock Award acceleration	—	5,330,765	5,330,765
	Benefits continuation	9,323	—	62,180
	Total value:	215,733	8,354,981	10,429,661
Matthew W. Foehr	Salary	121,282	—	430,000
	Bonus	—	—	215,000
	Option acceleration	—	1,972,914	1,972,914
	Stock Award acceleration	—	3,136,802	3,136,802
	Benefits continuation	7,458	—	31,090
	Total value:	128,740	5,109,716	5,785,806
Matthew Korenberg	Salary	70,641	—	380,000
	Bonus	—	—	152,000
	Option acceleration	—	231,241	231,241
	Stock Award acceleration	—	1,802,561	1,802,561
	Benefits continuation	5,594	—	31,090
	Total value:	76,235	2,033,802	2,596,892
Charles S. Berkman	Salary	150,192	—	330,000
	Bonus	—	—	132,000
	Option acceleration	—	750,427	750,427
	Stock Award acceleration	—	1,301,827	1,301,827
	Benefits continuation	11,187	—	31,090
	Total value:	161,379	2,052,254	2,545,344

The 2002 Plan provides that options or restricted stock units will vest in the event of a change in control and the (1) options or restricted stock units are not assumed or replaced by a successor. This disclosure assumes that the successor does not assume or replace the options or restricted stock units.

(2) The change in control severance agreements with each of our named executive officers provide that all of a named executive officer's outstanding stock awards will vest in the event of an involuntary termination.

#### Compensation of Directors

The following table provides information related to the compensation of each of our non-employee directors for fiscal 2016.

Name	Cash Fees (\$)	Stock Awards (\$) <sup>(9)</sup>	Option Awards (\$) <sup>(9)</sup>	Total (\$)
Jason M. Aryeh <sup>(1)</sup>	64,724	74,205	140,557	279,486
Todd Davis <sup>(2)</sup>	47,716	96,633	140,557	284,906
David Knott <sup>(4)</sup>	—	—	—	—
John W. Kozarich <sup>(5)</sup>	81,509	74,205	140,557	296,271

Sunil Patel <sup>(6)</sup>	55,144	74,205	140,557	269,906
Stephen L. Sabba <sup>(7)</sup>	70,144	74,205	140,557	284,906
John L. LaMattina <sup>(8)</sup>	30,216	96,633	140,557	267,406

As of December 31, 2016, Mr. Aryeh held options to purchase 8,395 shares of our common stock and 622 (1) restricted stock units. During 2016, Mr. Aryeh received 622 restricted stock units with a grant date fair value of \$74,205 and 2,329 stock options with a grant date fair value of \$140,557.

As of December 31, 2016, Mr. Davis held options to purchase 5,083 shares of our common stock and 622 (2) restricted stock units. During 2016, Mr. Davis received 810 restricted stock units with a grant date fair value of \$96,633 and 2,329 stock options with a grant date fair value of \$140,557. Mr. Davis elected to receive 188 shares of fully vested stock in lieu of \$22,500 of his 2016 cash retainer for his services as a non-employee director.

Mr. Knott decided not to stand for reelection at the 2016 annual meeting of stockholders. As a result, he ceased (4) serving as a member of our board of directors on May 23, 2016. As of December 31, 2016, Mr. Knott did not hold any options or restricted stock units.

As of December 31, 2016, Dr. Kozarich held options to purchase 32,900 shares of our common stock and 622 (5) restricted stock units. During 2016, Dr. Kozarich received 622 restricted stock units with a grant date fair value of \$74,205 and 2,329 stock options with a grant date fair value of \$140,557.

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As of December 31, 2016, Mr. Patel held options to purchase 30,400 shares of our common stock and 622 (6) restricted stock units. During 2016, Mr. Patel received 622 restricted stock units with a grant date fair value of \$74,205 and 2,329 stock options with a grant date fair value of \$140,557.

As of December 31, 2016, Dr. Sabba held options to purchase 35,400 shares of our common stock and 622 (7) restricted stock units. During 2016, Dr. Sabba received 622 restricted stock units with a grant date fair value of \$74,205 and 2,329 stock options with a grant date fair value of \$140,557.

As of December 31, 2016, Dr. LaMattina held options to purchase 30,400 shares of our common stock and 622 (8) restricted stock units. During 2016, Dr. LaMattina received 810 restricted stock units with a grant date fair value of \$96,633 and 2,329 stock options with a grant date fair value of \$140,557. Dr. LaMattina to receive 188 shares of fully vested stock in lieu of \$22,500 of his 2016 cash retainer for his services as a non-employee director.

Reflects the grant date fair value for stock and option awards granted in 2016, calculated in accordance with FASB ASC Topic 718. The assumptions used to calculate the value of stock and option awards are set forth under Note 8 (9) of the Notes to Consolidated Financial Statements included in our Annual Report on Form 10-K for the year ended December 31, 2016, filed with the SEC on February 26, 2017. With the exception of Todd Davis and John L. LaMattina, each director received 622 restricted stock units and 2,329 options.

#### Narrative to Director Compensation Table

Non-employee members of our board of directors are paid fees for their service as a director and are reimbursed for expenses incurred in connection with such service.

Under our director compensation policy, each director is eligible to receive an annual retainer of \$45,000. No meeting fees will be paid. In addition, the chairperson of the board will receive an additional annual retainer of \$30,000, the chairperson of the audit committee will receive an additional annual retainer fee of \$20,000, the chairperson of the compensation committee will receive an additional annual retainer of \$15,000 and the chairperson of the nominating and corporate governance committees will receive an additional annual retainer fee of \$10,000. Members of the audit committee will receive an additional annual retainer of \$10,000, members of the compensation committee will receive an additional annual retainer of \$7,500 and members of the nominating and corporate governance committee will receive an additional annual retainer of \$5,000. Directors may elect to receive their retainers in cash or vested shares of our common stock, which shares will be issued under our 2002 Plan.

At each annual meeting, non-employee directors will automatically be granted (i) that number of restricted stock units determined by dividing (a) \$75,000, by (b) the average closing price per share of the Company's common stock on the Nasdaq Global Market (or such other established stock exchange or national quotation system on which the stock is quoted) for the 30-calendar day period prior to the date of grant, and (ii) that number of stock options having a value of \$140,000, calculated on the grant date in accordance with the Black-Scholes option pricing model (utilizing the same assumptions that the Company utilizes in preparation of its financial statements). The foregoing awards will vest in full on the earlier of (i) the date of the annual meeting of the Company's stockholders next following the grant date, and (ii) on the first anniversary of the date of grant.

Upon initial election to the board of directors, each non-employee director will automatically be granted (i) that number of restricted stock units determined by dividing (a) \$113,000, by (b) the average closing price per share of the Company's common stock on the Nasdaq Global Market (or such other established stock exchange or national quotation system on which the stock is quoted) for the 30-calendar day period prior to the date of grant, and (ii) that number of stock options having a value of \$205,000, calculated on the grant date in accordance with the Black-Scholes option pricing model (utilizing the same assumptions that the Company utilizes in preparation of its financial statements). The foregoing awards will vest in three equal annual installments on each of the first three anniversaries following the date of grant.



All awards will vest in full in the event of a change in control or a hostile take-over, each as defined under our 2002 Plan.

Non-Employee Director Ownership Guidelines. In addition, the director compensation policy contains an ownership guideline so that members of the board are required to own shares with a value of at least three times the then-current annual retainer after they had completed three years of board service. As of the date of this proxy statement, all non-employee directors were in compliance with these guidelines.

Compensation Committee Interlocks and Insider Participation

Relationships and Independence of the Compensation Committee Members

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During fiscal 2016, the compensation committee was composed of Messrs. Aryeh and Davis and Dr. LaMattina. No executive officer of the Company served on the board of directors or compensation committee of any entity which has one or more executive officers serving as members of the Company's board of directors or compensation committee.

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### Compensation Committee Report

The compensation committee of the Company's board of directors has submitted the following report for inclusion in this proxy statement:

The compensation committee reviewed this Compensation Discussion and Analysis and discussed its contents with the Company's management. Based on the review and discussions, the compensation committee has recommended to the board of directors that this Compensation Discussion and Analysis be included in this proxy statement and our annual report for the year ended December 31, 2016.

This report of the compensation committee shall not be deemed incorporated by reference by any general statement incorporating by reference this proxy statement into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except to the extent that we specifically incorporate this information by reference, and shall not otherwise be deemed filed under such acts.

The foregoing report has been furnished by the compensation committee.

Todd C. Davis, Chairperson of the Compensation Committee

Jason M. Aryeh

John L. LaMattina, Ph.D.

## Audit Committee Report

The following is the report delivered by the audit committee of the Company's board of directors with respect to the principal factors considered by such committee in its oversight of the accounting, auditing and financial reporting practices of the Company for 2016.

The audit committee oversees the Company's financial reporting process on behalf of the board of directors. Management has the primary responsibility for the financial statements and the reporting process including the systems of internal controls. In fulfilling its oversight responsibilities, the audit committee reviewed and discussed the audited financial statements in the Company's annual report with management, including a discussion of any significant changes in the selection or application of accounting principles, the reasonableness of significant judgments, the clarity of disclosures in the financial statements and the effect of any new accounting initiatives.

The audit committee reviewed and discussed with Ernst & Young LLP, who is responsible for expressing an opinion on the conformity of the Company's audited consolidated financial statements with generally accepted accounting principles, their judgments as to the quality, not just the acceptability, of the Company's accounting principles and such other matters as are required to be discussed with the audit committee under generally accepted auditing standards, including those matters required under Auditing Standard No. 16 (Communications with Audit Committees). In addition, the audit committee has discussed with Ernst & Young LLP their independence from management and the Company, and has received from Ernst & Young LLP the written disclosures and the letter required by the Public Company Accounting Oversight Board Rule 3526.

The audit committee met with Ernst & Young LLP to discuss the overall scope of their services, the results of their audit and reviews, its evaluation of the Company's internal controls and the overall quality of the Company's financial reporting. Ernst & Young LLP, as the Company's independent registered public accounting firm, also periodically updates the audit committee about new accounting developments and their potential impact on the Company's reporting. The audit committee's meetings with Ernst & Young LLP were held with and without management present. The audit committee is not employed by the Company, nor does it provide any expert assurance or professional certification regarding the Company's financial statements. The audit committee relies, without independent verification, on the accuracy and integrity of the information provided, and representations made, by management and the Company's independent registered public accounting firm.

In reliance on the reviews and discussions referred to above, the audit committee has recommended to the Company's board of directors that the audited consolidated financial statements be included in this proxy statement and in our annual report for the year ended December 31, 2016.

This report of the audit committee shall not be deemed incorporated by reference by any general statement incorporating by reference this proxy statement into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except to the extent that we specifically incorporate this information by reference, and shall not otherwise be deemed filed under such acts.

The foregoing report has been furnished by the audit committee.

Stephen L. Sabba, M.D., Chairperson of the Audit Committee

Todd C. Davis

Sunil Patel

Compensation Plans

We have two compensation plans approved by our stockholders under which our equity securities are authorized for issuance to employees and directors for goods or services, the 2002 Plan and the Employee Stock Purchase Plan.

The following table summarizes information about our equity compensation plans as of December 31, 2016:

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	(a) Number of securities to be issued upon exercises of outstanding options, warrants and rights	(b) Weighted- average exercise price of outstanding options, warrants and rights	(c) Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column(a))
Equity compensation plans approved by security holders	1,752,275	42.12	998,056 <sup>(1)</sup>
Equity compensation plans not approved by security holders <sup>(2)</sup>	—	—	—
	1,752,275	42.12	998,056 <sup>(1)</sup>

(1) At December 31, 2016, 987,759 and 70,297 shares were available under the 2002 Plan and the Employee Stock Purchase Plan, respectively, for future grants of awards.

(2) There are no equity compensation plans (including individual compensation arrangements) not approved by the Company's security holders.

#### Certain Relationships and Related Transactions

We describe below transactions and series of similar transactions, since the beginning of fiscal year 2016, with respect to which we were a party, will be a party, or otherwise benefited, in which:

the amounts involved exceeded or will exceed \$120,000; and

a director, nominee for director, executive officer, holder of more than 5% of our common stock or any member of their immediate family had or will have a direct or indirect material interest.

Pursuant to our audit committee charter, the audit committee of our board of directors is responsible for reviewing and approving all transactions with related parties. We have not adopted written procedures for review of, or standards for approval of, these transactions, but instead the audit committee of our board of directors intends to review such transactions on a case by case basis. In addition, the compensation committee of our board of directors and/or our board of directors will review approve all compensation-related policies involving our directors and executive officers.

The severance arrangements we have entered into with each of our executive officers provide for severance benefits in specified circumstances, as well as benefits in connection with a change in control. See "Compensation Discussion and Analysis—Severance and Change in Control Arrangements."

Our certificate of incorporation and our amended and restated bylaws provide that we will indemnify each of our directors and officers to the fullest extent permitted by the Delaware General Corporation Law. Further, we have entered into indemnification agreements with each of our directors and officers, and we have purchased a policy of directors' and officers' liability insurance that insures our directors and officers against the cost of defense, settlement or payment of a judgment under certain circumstances.

Pursuant to the management rights letter between Viking Therapeutics, Inc. ("Viking"), and the Company dated May 21, 2014, the Company nominated Mr. Foehr to serve as a member of Viking's board of directors. During 2016, in connection with Mr. Foehr's service as a director of Viking, Mr. Foehr received (1) \$33,170 in cash payments and (2) \$36,084 in option awards (representing the aggregate grant date fair value of the option awards as reported by Viking, computed in accordance with authoritative accounting guidance).

In May 2016, we entered into a purchase agreement to acquire certain royalty and milestone rights from CorMatrix Cardiovascular, Inc. ("CorMatrix") for approximately \$17.5 million. Two of our directors at the time of the transaction, Jason Aryeh and David Knott, each owned less than 1% of Cormatrix. In addition, Mr. Aryeh was a director of CorMatrix.

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Mr. Aryeh recused himself from all of our board's consideration of the transaction with CorMatrix and the vote to approve such transaction. Neither Mr. Aryeh or Mr. Knott received a direct payment as part of the CorMatrix transaction.

All future transactions between the Company and its officers, directors, principal stockholders and affiliates will be approved by the audit committee or a majority of the independent and disinterested members of the board of directors.

#### Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Securities Exchange Act of 1934, as amended, requires the Company's executive officers and directors, and persons who own more than 10% of a registered class of the Company's equity securities, to file reports of ownership and changes in ownership with the SEC. Executive officers, directors and greater than 10% stockholders are required by SEC regulation to furnish the Company with copies of all Section 16(a) forms they file.

Based solely on review of the copies of such forms furnished to the Company, or written representations from certain reporting persons, we have determined that all Section 16(a) filing requirements applicable to its officers, directors and greater than 10% beneficial owners were satisfied during the fiscal year ended December 31, 2016.

#### Deadline For Proposals For Next Annual Meeting

The deadline for submitting a stockholder proposal for inclusion in our proxy statement and form of proxy for the 2017 annual meeting of stockholders is December 15, 2017 (120 calendar days in advance of the anniversary of the date of this proxy statement). Stockholders wishing to submit proposals or director nominations that are to be included in such proxy statement and proxy must also do so by December 15, 2017. Stockholders are advised to review our amended and restated bylaws, which contain additional requirements with respect to advance notice of stockholder proposals and director nominations. Our current amended and restated bylaws are available at the SEC's website, [www.sec.gov](http://www.sec.gov), or upon written request to our Corporate Secretary at the address listed below. Stockholder proposals and director nominations should be directed to Corporate Secretary, Ligand Pharmaceuticals Incorporated, 3911 Sorrento Valley Boulevard, Suite 110, San Diego CA, 92121.

In addition, the proxy solicited by the board of directors for the next annual meeting of stockholders will confer discretionary authority to vote on any stockholder proposal presented at that meeting, unless the Company receives notice of such proposal no later than a reasonable period of time prior to the mailing of proxy materials for such annual meeting.

#### Annual Report on Form 10-K

Stockholders that received the Notice of Internet Availability of Proxy Materials can access this Proxy Statement and our fiscal 2016 Annual Report at <http://www.envisionreports.com/LGND>, which does not have cookies that identify visitors to the site. A copy of the Annual Report of the Company on Form 10-K for the 2016 fiscal year has been mailed concurrently with this proxy statement to all stockholders that received a copy of the proxy materials in the mail. The Annual Report is not incorporated into this proxy statement and is not considered proxy solicitation material. Written requests for copies of our Annual Report to stockholders may also be directed to our Corporate Secretary, Ligand Pharmaceuticals Incorporated, 3911 Sorrento Valley Boulevard Suite 110, San Diego, CA 92121.

#### Solicitation of Proxies

The Company will bear the entire cost of solicitation, including the preparation, assembly, printing and mailing of this proxy statement, the proxy and any additional solicitation material furnished to stockholders. Copies of solicitation material will be furnished to brokerage houses, fiduciaries and custodians holding shares in their names that are beneficially owned by others so that they may forward this solicitation material to such beneficial owners. In addition, the Company may reimburse such persons for their costs of forwarding the solicitation materials to such beneficial owners. The original solicitation of proxies by mail may be supplemented by solicitation by telephone, telegram or



other means by directors, officers, employees or agents of the Company. No additional compensation will be paid to directors, officers or employees of the Company for any such services. Except as described above, the Company does not presently intend to solicit proxies other than by internet.

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### Householding of Proxy Materials

The SEC has adopted rules that permit companies and intermediaries (such as brokers) to satisfy the delivery requirements for proxy statements and annual reports with respect to two or more stockholders sharing the same address by delivering a single proxy statement addressed to those stockholders. This process, which is commonly referred to as “householding,” potentially results in a reduced usage of natural resources and cost savings for companies.

A number of brokers with account holders who are our stockholders will be “householding” our proxy materials. A single proxy statement and one annual report will be delivered to multiple stockholders sharing an address unless contrary instructions have been received from the affected stockholders. Once you have received notice from your broker that they will be “householding” communications to your address, “householding” will continue until you are notified otherwise or until you revoke your consent. Any stockholder at a shared address to which a single copy of the documents was delivered and who wishes to receive a separate copy of the documents can request a copy of the documents by sending a written request to our Corporate Secretary, Ligand Pharmaceuticals Incorporated, 3911 Sorrento Valley Boulevard, Suite 110, San Diego, CA 92121, or contact our Corporate Secretary at (858) 550-7500. Also, if you no longer wish to participate in “householding” and would prefer to receive a separate proxy statement and annual report in the future, please notify your broker or direct your written request to Corporate Secretary, Ligand Pharmaceuticals Incorporated, 3911 Sorrento Valley Boulevard, Suite 110, San Diego, CA 92121, or contact our Corporate Secretary at (858) 550-7500. Stockholders who currently receive multiple copies of the proxy statement at their address and would like to request “householding” of their communications should contact their broker.

### Other Business

As of the date of this proxy statement, the board of directors knows of no other business that will be presented for consideration at the annual meeting. If other matters are properly brought before the annual meeting, however, it is the intention of the persons named in the accompanying proxy to vote the shares represented thereby on such matters in accordance with their best judgment.

By Order of the Board of Directors,

/s/ CHARLES S. BERKMAN  
Charles S. Berkman  
Vice President, General Counsel & Secretary  
April 14, 2017

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## Appendix A - Reconciliation on Non-GAAP Financial Measures

The following table outlines our calculation for purposes of determining the achievement relative to the non-GAAP earnings per share growth for the 2015 performance-based restricted stock units. Our non-GAAP earnings per share growth for purposes of the 2015 performance-based restricted stock units for the two year performance period commencing January 1, 2015 and ending December 31, 2016 was 48% as non-GAAP earnings per share grew from \$1.52 for the year ended December 31, 2014 to \$3.33 for the year ended December 31, 2016, resulting in a 115% payout with respect to these units.

	Year ended December 31,	
	2016	2014
Amounts shown in thousands, except share and per share data.		
Net income	\$(1,636)	\$12,024
Stock-based compensation expense	18,893	11,270
Non-cash interest expense(1)	10,926	3,693
Amortization related to acquisitions	8,622	—
Loss from Viking(2)	23,132	—
Increase in contingent liabilities(3)	3,334	5,135
Fair market value adjustment on Viking note and warrants(4)	(462)	—
Mark-to-market adjustment for investments owed to licensors(5)	(36)	465
Non-cash income taxes	10,327	—
Discontinued operations, net of tax	(731)	—
Adjusted net income from continuing operations	\$72,369	\$32,587
Diluted per-share amounts:		
Net income	\$(0.08)	\$0.56
Stock-based compensation expense	0.91	0.53
Non-cash interest expense(1)	0.52	0.17
Amortization related to acquisitions	0.41	—
Loss from Viking(2)	1.11	—
Increase in contingent liabilities(3)	0.16	0.24
Fair market value adjustment on Viking note and warrants(4)	(0.02)	—
Mark-to-market adjustment for investments owed to licensors(5)	—	0.02
Non-cash income taxes	0.50	—
Discontinued operations, net of tax	(0.04)	—
2019 Senior Convertible Notes share count adjustment	(0.14)	—
Adjusted net income from continuing operations	\$3.33	\$1.52
Weighted average shares used in calculation of GAAP diluted earnings per share	20,831	21,433
Shares excluded due to anti-dilutive effect on GAAP net loss	1,884	—
Weighted average dilutive potential common shares issuable of 2019 Senior Convertible Notes	(995)	—
Weighted average shares used in calculation of adjusted diluted earnings per share	21,720	21,433

(1) Non-cash debt related costs are calculated in accordance with the authoritative accounting guidance for convertible debt instruments that may be settled in cash.



(2) Loss from Viking reflects our share of Viking's net loss of \$5.1M for the twelve months ended December 31, 2016 and the decrease in the book value of our equity method investment in Viking of \$10.6 million for the twelve months ended December 31, 2016, as a result of our decreased ownership percentage in Viking after Viking's financing and an impairment charge of \$7.4 million for the year ended December 31, 2016 as a result of an other than temporary decrease in the value of our investment in Viking.

(3) Changes in fair value of contingent consideration related to CyDex and Metabasis transactions.

(4) Changes in fair value of Viking Therapeutics, Inc. note receivable and warrants.

(5) Amounts due to Bristol-Myers Squibb relating to sale of shares of Retrophin, Inc.

The table above reflects the method for calculating non-GAAP earnings per share in place as of the date of the grant of the performance-based restricted stock units.

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