UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

SCHEDULE 14A

(Rule 14a-101)

INFORMATION REQUIRED IN PROXY STATEMENT SCHEDULE 14A INFORMATION

Proxy Statement Pursuant to Section 14(a) of the Securities Exchange Act of 1934

(Amendment No.)

Filed by the Registrant \boxtimes Filed by a Party other than the Registrant \square

Check the appropriate box:

Preliminary Proxy Statement

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

Lyra Therapeutics, Inc.

(Name of Registrant as Specified in its Charter)

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

Payment of Filing Fee (Check the appropriate box):

No fee required.

- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.
 - (1) Title of each class of securities to which transaction applies:
 - (2) Aggregate number of securities to which transaction applies:
 - (3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):
 - (4) Proposed maximum aggregate value of transaction:
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□ Fee paid previously with preliminary materials:

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

(1) Amount previously paid:

- (2) Form, Schedule or Registration Statement No.:
- (3) Filing Party:
- (4) Date Filed:

NOTICE & PROXY STATEMENT

Annual Meeting of Stockholders

May 26, 2021 8:30 a.m. (Eastern time)

LYRA THERAPEUTICS, INC. 480 ARSENAL WAY WATERTOWN, MASSACHUSETTS 02472

April 14, 2021

To Our Stockholders:

You are cordially invited to attend the 2021 Annual Meeting of Stockholders (the "Annual Meeting") of Lyra Therapeutics, Inc. at 8:30 a.m. Eastern time, on Wednesday, May 26, 2021. In light of the ongoing COVID-19 pandemic, the Annual Meeting will be a completely virtual meeting, which will be conducted via live webcast.

The Notice of Meeting and Proxy Statement on the following pages describe the matters to be presented at the Annual Meeting. Please see the section called "Who can attend the Annual Meeting?" on page 3 of the proxy statement for more information about how to attend the meeting online.

Whether or not you attend the Annual Meeting online, it is important that your shares be represented and voted at the Annual Meeting. Therefore, I urge you to promptly vote and submit your proxy by phone, via the Internet, or, if you received paper copies of these materials, by signing, dating and returning the enclosed proxy card in the enclosed envelope, which requires no postage if mailed in the United States. If you have previously received our Notice of Internet Availability of Proxy Materials, then instructions regarding how you can vote are contained on the proxy card. If you decide to attend the Annual Meeting, you will be able to vote online, even if you have previously submitted your proxy.

Thank you for your support.

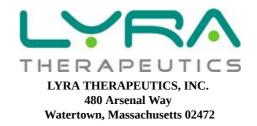
Sincerely,

/s/ Maria Palasis, Ph.D.

Maria Palasis, Ph.D. President, Chief Executive Officer and Chair of the Board

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NOTICE OF ANNUAL MEETING OF STOCKHOLDERS TO BE HELD WEDNESDAY, MAY 26, 2021

The Annual Meeting of Stockholders (the "Annual Meeting") of Lyra Therapeutics, Inc., a Delaware corporation (the "Company"), will be held at 8:30 a.m. Eastern time on Wednesday, May 26, 2021. In light of the ongoing COVID-19 pandemic, the Annual Meeting will be a completely virtual meeting, which will be conducted via live webcast. You will be able to attend the Annual Meeting online and submit your questions during the meeting by visiting *www.virtualshareholdermeeting.com/LYRA2021* and entering your 16-digit control number included in your Notice of Internet Availability of Proxy Materials, on your proxy card or on the instructions that accompanied your proxy materials. The Annual Meeting will be held for the following purposes:

- To elect Edward Anderson, Konstantin Poukalov and Nancy L. Snyderman, M.D., FACS as Class I Directors to serve until the 2024 Annual Meeting of Stockholders, and until their respective successors shall have been duly elected and qualified;
- To ratify the appointment of BDO USA, LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2021; and
- To transact such other business as may properly come before the Annual Meeting or any continuation, postponement, or adjournment of the Annual Meeting.

Holders of record of our common stock as of the close of business on April 9, 2021 are entitled to notice of and to vote at the Annual Meeting, or any continuation, postponement or adjournment of the Annual Meeting. A complete list of such stockholders will be open to the examination of any stockholder for a period of ten days prior to the Annual Meeting for a purpose germane to the meeting by sending an email to R. Don Elsey, Chief Financial Officer, Treasurer and Secretary, at delsey@lyratx.com, stating the purpose of the request and providing proof of ownership of Company stock. The list of these stockholders will also be available during the Annual Meeting after entering the 16-digit control number included on your Notice of Internet Availability of Proxy Materials, on your proxy card or on the instructions that accompanied your proxy materials. The Annual Meeting may be continued or adjourned from time to time without notice other than by announcement at the Annual Meeting.

It is important that your shares be represented regardless of the number of shares you may hold. Whether or not you plan to attend the Annual Meeting online, we urge you to vote your shares via the toll-free telephone number or over the Internet, as described in the enclosed materials. If you received a copy of the proxy card by mail, you may sign, date and mail the proxy card in the enclosed return envelope. Promptly voting your shares will ensure the presence of a quorum at the Annual Meeting and will save us the expense of further solicitation. Submitting your proxy now will not prevent you from voting your shares at the Annual Meeting if you desire to do so, as your proxy is revocable at your option.

By Order of the Board of Directors

/s/ R. Don Elsey

R. Don Elsey Chief Financial Officer, Treasurer and Secretary

Watertown, Massachusetts April 14, 2021





This proxy statement is furnished in connection with the solicitation by the Board of Directors of Lyra Therapeutics, Inc. of proxies to be voted at our Annual Meeting of Stockholders to be held on Wednesday, May 26, 2021 (the "Annual Meeting"), at 8:30 a.m. Eastern time, and at any continuation, postponement, or adjournment of the Annual Meeting. In light of the ongoing COVID-19 pandemic, the Annual Meeting will be a completely virtual meeting, which will be conducted via live webcast. You will be able to attend the Annual Meeting online and submit your questions during the meeting by visiting www.virtualshareholdermeeting.com/LYRA2021 and entering your 16-digit control number included in your Notice of Internet Availability of Proxy Materials, on your proxy card or on the instructions that accompanied your proxy materials.

Holders of record of shares of our common stock, \$0.001 par value per share, as of the close of business on April 9, 2021 (the "Record Date"), will be entitled to notice of and to vote at the Annual Meeting and any continuation, postponement, or adjournment of the Annual Meeting. As of the Record Date, there were 12,962,768 shares of common stock outstanding and entitled to vote at the Annual Meeting. Each share of common stock is entitled to one vote on any matter presented to stockholders at the Annual Meeting.

This proxy statement and the Company's Annual Report to Stockholders for the year ended December 31, 2020 (the "2020 Annual Report") will be released on or about April 14, 2021 to our stockholders on the Record Date.

In this proxy statement, "Lyra", "Company", "we", "us", and "our" refer to Lyra Therapeutics, Inc.

IMPORTANT NOTICE REGARDING THE AVAILABILITY OF PROXY MATERIALS FOR THE STOCKHOLDER MEETING TO BE HELD ON WEDNESDAY, MAY 26, 2021

This Proxy Statement and our 2020 Annual Report to Stockholders are available at http://www.proxyvote.com/

Proposals

At the Annual Meeting, our stockholders will be asked:

- To elect Edward Anderson, Konstantin Poukalov and Nancy L. Snyderman, M.D., FACS as Class I Directors to serve until the 2024 Annual Meeting of Stockholders, and until their respective successors shall have been duly elected and qualified;
- To ratify the appointment of BDO USA, LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2021; and
- To transact such other business as may properly come before the Annual Meeting or any continuation, postponement, or adjournment of the Annual Meeting.

We know of no other business that will be presented at the Annual Meeting. If any other matter properly comes before the stockholders for a vote at the Annual Meeting, however, the proxy holders named on the Company's proxy card will vote your shares in accordance with their best judgment.

Recommendations of the Board

The Board of Directors (the "Board") recommends that you vote your shares as indicated below. If you return a properly completed proxy card, or vote your shares by telephone or Internet, your shares of common stock will be voted on your behalf as you direct. If not otherwise specified, the shares of common stock represented by the proxies will be voted, and the Board recommends that you vote:

- FOR the election of Edward Anderson, Konstantin Poukalov and Nancy L. Snyderman, M.D., FACS as Class I Directors; and
- FOR the ratification of the appointment of BDO USA, LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2021.

If any other matter properly comes before the stockholders for a vote at the Annual Meeting, the proxy holders named on the Company's proxy card will vote your shares in accordance with their best judgment.

Information About This Proxy Statement

Why you received this proxy statement. You are viewing or have received these proxy materials because Lyra's Board of Directors is soliciting your proxy to vote your shares at the Annual Meeting. This proxy statement includes information that we are required to provide to you under the rules of the Securities and Exchange Commission ("SEC") and that is designed to assist you in voting your shares.

Notice of Internet Availability of Proxy Materials. As permitted by SEC rules, Lyra is making this proxy statement and its 2020 Annual Report available to its stockholders electronically via the Internet. On or about April 14, 2021, we mailed to our stockholders a Notice of Internet Availability of Proxy Materials (the "Internet Notice") containing instructions on how to access this proxy statement and our 2020 Annual Report and vote online. If you received an Internet Notice by mail, you will not receive a printed copy of the proxy materials in the mail unless you specifically request them. Instead, the Internet Notice instructs you on how to access and review all of the important information contained in the proxy statement and 2020 Annual Report. The Internet Notice also instructs you on how you may submit your proxy over the Internet. If you received an Internet Notice by mail and would like to receive a printed copy of our proxy materials, you should follow the instructions for requesting such materials contained on the Internet Notice.

Printed Copies of Our Proxy Materials. If you received printed copies of our proxy materials, then instructions regarding how you can vote are contained on the proxy card included in the materials.

Householding. The SEC's rules permit us to deliver a single set of proxy materials to one address shared by two or more of our stockholders. This delivery method is referred to as "householding" and can result in significant cost savings. To take advantage of this opportunity, we have delivered only one set of proxy materials to multiple stockholders who share an address, unless we received contrary instructions from the impacted stockholders prior to the mailing date. We agree to deliver promptly, upon written or oral request, a separate copy of the proxy materials, as requested, to any stockholder at the shared address to which a single copy of those documents was delivered. If you prefer to receive separate copies of the proxy materials, contact Broadridge Financial Solutions, Inc. at 1-866-540-7095 or in writing at Broadridge, Householding Department, 51 Mercedes Way, Edgewood, New York 11717.

If you are currently a stockholder sharing an address with another stockholder and wish to receive only one copy of future proxy materials for your household, please contact Broadridge at the above phone number or address.



QUESTIONS AND ANSWERS ABOUT THE 2021 ANNUAL MEETING OF STOCKHOLDERS

Who is entitled to vote at the Annual Meeting?

The Record Date for the Annual Meeting is April 9, 2021. You are entitled to vote at the Annual Meeting only if you were a stockholder of record at the close of business on that date, or if you hold a valid proxy for the Annual Meeting. Each outstanding share of common stock is entitled to one vote for all matters before the Annual Meeting. At the close of business on the Record Date, there were 12,962,768 shares of common stock outstanding and entitled to vote at the Annual Meeting.

What is the difference between being a "record holder" and holding shares in "street name"?

A record holder holds shares in his or her name. Shares held in "street name" means shares that are held in the name of a bank or broker on a person's behalf.

Am I entitled to vote if my shares are held in "street name"?

Yes. If your shares are held by a bank or a brokerage firm, you are considered the "beneficial owner" of those shares held in "street name." If your shares are held in street name, these proxy materials are being provided to you by your bank or brokerage firm, along with a voting instruction card if you received printed copies of our proxy materials. As the beneficial owner, you have the right to direct your bank or brokerage firm how to vote your shares, and the bank or brokerage firm is required to vote your shares in accordance with your instructions. If your shares are not registered in your own name and you would like to vote your shares at the Annual Meeting, you should contact your broker or other nominee to obtain your 16-digit control number or otherwise vote through the broker or other nominee.

How many shares must be present to hold the Annual Meeting?

A quorum must be present at the Annual Meeting for any business to be conducted. The presence at the Annual Meeting online or by proxy, of the holders of a majority in voting power of the common stock issued and outstanding and entitled to vote on the Record Date will constitute a quorum.

Who can attend the Annual Meeting?

As part of our effort to maintain a safe and healthy environment for our directors, members of management and stockholders who wish to attend the Annual Meeting, in light of the ongoing COVID-19 pandemic, Lyra has decided to hold the Annual Meeting entirely online this year. You may attend and participate in the Annual Meeting by visiting the following website: *www.virtualshareholdermeeting.com/LYRA2021*. To attend and participate in the Annual Meeting, you will need the 16-digit control number included in your Internet Notice, on your proxy card or on the instructions that accompanied your proxy materials. If your shares are held in "street name," you should contact your bank or broker to obtain your 16-digit control number or otherwise vote through the bank or broker. If you lose your 16-digit control number, you may join the Annual Meeting as a "Guest" but you will not be able to vote, ask questions or access the list of stockholders as of the Record Date. The meeting webcast will begin promptly at 8:30 a.m. Eastern time. We encourage you to access the meeting prior to the start time. Online check-in will begin at 8:15 a.m., Eastern time, and you should allow ample time for the check-in procedures.

What if a quorum is not present at the Annual Meeting?

If a quorum is not present at the scheduled time of the Annual Meeting, the Chairperson of the Annual Meeting is authorized by our Amended and Restated Bylaws to adjourn the meeting, without the vote of stockholders.

What does it mean if I receive more than one Internet Notice or more than one set of proxy materials?

It means that your shares are held in more than one account at the transfer agent and/or with banks or brokers. Please vote all of your shares. To ensure that all of your shares are voted, for each Internet Notice or set of proxy materials, please submit your proxy by phone, via the Internet, or, if you received printed copies of the proxy materials, by signing, dating and returning the enclosed proxy card in the enclosed envelope.

How do I vote?

Stockholders of Record. If you are a stockholder of record, you may vote:

- by Internet—You can vote over the Internet at *www.proxyvote.com* by following the instructions on the Internet Notice or proxy card;
- by Telephone—You can vote by telephone by calling 1-800-690-6903 and following the instructions on the proxy card;
- by Mail—You can vote by mail by signing, dating and mailing the proxy card, which you may have received by mail; or
- Electronically at the Meeting—If you attend the meeting online, you will need the 16-digit control number included in your Internet Notice, on your proxy card or on the instructions that accompanied your proxy materials to vote electronically during the meeting.

Internet and telephone voting facilities for stockholders of record will be available 24 hours a day and will close at 11:59 p.m., Eastern time, on May 25, 2021. To participate in the Annual Meeting, including to vote via the Internet or telephone, you will need the 16-digit control number included on your Internet Notice, on your proxy card or on the instructions that accompanied your proxy materials.

Whether or not you expect to attend the Annual Meeting online, we urge you to vote your shares as promptly as possible to ensure your representation and the presence of a quorum at the Annual Meeting. If you submit your proxy, you may still decide to attend the Annual Meeting and vote your shares electronically.

Beneficial Owners of Shares Held in "Street Name." If your shares are held in "street name" through a bank or broker, you will receive instructions on how to vote from the bank or broker. You must follow their instructions in order for your shares to be voted. Internet and telephone voting also may be offered to stockholders owning shares through certain banks and brokers. If your shares are not registered in your own name and you would like to vote your shares online at the Annual Meeting, you should contact your bank or broker to obtain your 16-digit control number or otherwise vote through the bank or broker. If you lose your 16-digit control number, you may join the Annual Meeting as a "Guest" but you will not be able to vote, ask questions or access the list of stockholders as of the Record Date. You will need to obtain your own Internet access if you choose to attend the Annual Meeting online and/or vote over the Internet.

Can I change my vote after I submit my proxy?

Yes.

If you are a registered stockholder, you may revoke your proxy and change your vote:

- by submitting a duly executed proxy bearing a later date;
- by granting a subsequent proxy through the Internet or telephone;
- by giving written notice of revocation to the Secretary of Lyra prior to the Annual Meeting; or
- by voting online at the Annual Meeting.

Your most recent proxy card or Internet or telephone proxy is the one that is counted. Your attendance at the Annual Meeting by itself will not revoke your proxy unless you give written notice of revocation to the Secretary before your proxy is voted or you vote online at the Annual Meeting.

If your shares are held in street name, you may change or revoke your voting instructions by following the specific directions provided to you by your bank or broker, or you may vote online at the Annual Meeting using your 16-digit control number or otherwise voting through your bank or broker.

Who will count the votes?

A representative of Broadridge Financial Solutions, Inc., our inspector of election, will tabulate and certify the votes.

What if I do not specify how my shares are to be voted?

If you submit a proxy but do not indicate any voting instructions, the persons named as proxies will vote in accordance with the recommendations of the Board. The Board's recommendations are indicated on page 2 of this proxy statement, as well as with the description of each proposal in this proxy statement.

Will any other business be conducted at the Annual Meeting?

We know of no other business that will be presented at the Annual Meeting. If any other matter properly comes before the stockholders for a vote at the Annual Meeting, however, the proxy holders named on the Company's proxy card will vote your shares in accordance with their best judgment.

Why hold a virtual meeting?

As part of our effort to maintain a safe and healthy environment for our directors, members of management and stockholders who wish to attend the Annual Meeting, in light of COVID-19, we believe that hosting a virtual meeting this year is in the best interest of the Company and its stockholders. A virtual meeting also enables increased stockholder attendance and participation because stockholders can participate from any location around the world. You will be able to attend the Annual Meeting online and submit your questions by visiting www.virtualshareholdermeeting.com/LYRA2021. You also will be able to vote your shares electronically at the Annual Meeting by following the instructions above.

What if during the check-in time or during the Annual Meeting I have technical difficulties or trouble accessing the virtual meeting website?

We will have technicians ready to assist you with any technical difficulties you may have accessing the virtual meeting website, and the information for assistance will be located on www.virtualshareholdermeeting.com/LYRA2021.

Will there be a question and answer session during the Annual Meeting?

As part of the Annual Meeting, we will hold a live Q&A session, during which we intend to answer appropriate questions submitted by stockholders during the meeting that are pertinent to the Company and the meeting matters. The Company will endeavor to answer as many questions submitted by stockholders as time permits. Only stockholders that have accessed the Annual Meeting as a stockholder (rather than a "Guest") by following the procedures outlined above in "Who can attend the Annual Meeting?" will be permitted to submit questions during the Annual Meeting. Each stockholder is limited to no more than two questions. Questions should be succinct and only cover a single topic. We will not address questions that are, among other things:

- irrelevant to the business of the Company or to the business of the Annual Meeting;
- related to material non-public information of the Company, including the status or results of our business since our last Quarterly Report on Form 10-Q;
- related to any pending, threatened or ongoing litigation;
- related to personal grievances;
- derogatory references to individuals or that are otherwise in bad taste;
- substantially repetitious of questions already made by another stockholder;
- in excess of the two question limit;

- in furtherance of the stockholder's personal or business interests; or
- out of order or not otherwise suitable for the conduct of the Annual Meeting as determined by the Chair or Secretary in their reasonable judgment.

Additional information regarding the Q&A session will be available in the "Rules of Conduct" available on the Annual Meeting webpage for stockholders that have accessed the Annual Meeting as a stockholder (rather than a "Guest") by following the procedures outlined above in "Who can attend the Annual Meeting?".

How many votes are required for the approval of the proposals to be voted upon and how will abstentions and broker non-votes be treated?

| Proposal | Votes required | Effect of Votes Withheld / Abstentions and Broker Non-Votes |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Proposal 1: Election of Directors | The plurality of the votes cast. This means that the three nominees receiving the highest number of affirmative "FOR" votes will be elected as Class I Directors. | Votes withheld and broker non-votes will have no effect. |
| Proposal 2: Ratification of Appointment of Independent Registered Public Accounting Firm | The affirmative vote of the holders of a majority in voting power of the votes cast affirmatively or negatively. | Abstentions will have no effect. We do not expect any broker non-votes on this proposal. |

What is a "vote withheld" and an "abstention" and how will votes withheld and abstentions be treated?

A "vote withheld," in the case of the proposal regarding the election of directors, or an "abstention," in the case of the proposal regarding the ratification of the appointment of BDO USA, LLP as our independent registered public accounting firm, represents a stockholder's affirmative choice to decline to vote on a proposal. Votes withheld and abstentions are counted as present and entitled to vote for purposes of determining a quorum. Votes withheld have no effect on the election of directors. Abstentions have no effect on the ratification of the appointment of BDO USA, LLP.

What are broker non-votes and do they count for determining a quorum?

Generally, broker non-votes occur when shares held by a broker in "street name" for a beneficial owner are not voted with respect to a particular proposal because the broker (1) has not received voting instructions from the beneficial owner and (2) lacks discretionary voting power to vote those shares. A broker is entitled to vote shares held for a beneficial owner on routine matters, such as the ratification of the appointment of BDO USA, LLP as our independent registered public accounting firm, without instructions from the beneficial owner of those shares. On the other hand, absent instructions from the beneficial owner of such shares, a broker is not entitled to vote shares held for a beneficial owner on non-routine matters, such as the election of directors. Broker non-votes count for purposes of determining whether a quorum is present.

Where can I find the voting results of the Annual Meeting?

We plan to announce preliminary voting results at the Annual Meeting and we will report the final results in a Current Report on Form 8-K, which we intend to file with the SEC after the Annual Meeting.



PROPOSALS TO BE VOTED ON

Proposal 1: Election of Directors

At the Annual Meeting, three (3) Class I Directors are to be elected to hold office until the Annual Meeting of Stockholders to be held in 2024 and until each such director's respective successor is elected and qualified or until each such director's earlier death, resignation or removal.

We currently have seven (7) directors on our Board, including three (3) Class I Directors. Our current Class I Directors are Edward Anderson, Konstantin Poukalov and Nancy Snyderman, M.D., FACS, who have served on our Board since February 2019, January 2020 and October 2020, respectively, each of whom has been nominated by the Board for election as Class I Directors at the Annual Meeting.

The proposal regarding the election of directors requires the approval of a plurality of the votes cast. This means that the three nominees receiving the highest number of affirmative "FOR" votes will be elected as Class I Directors. Votes withheld and broker non-votes are not considered to be votes cast and, accordingly, will have no effect on the outcome of the vote on this proposal.

As set forth in our Restated Certificate of Incorporation, the Board of Directors is currently divided into three classes with staggered, three-year terms. At each annual meeting of stockholders, the successors to directors whose terms then expire will be elected to serve from the time of election and qualification until the third annual meeting following election. The current class structure is as follows: Class I, whose term currently expires at the 2021 Annual Meeting of Stockholders and whose subsequent term will expire at the 2024 Annual Meeting of Stockholders; Class II, whose term will expire at the 2022 Annual Meeting of Stockholders and whose subsequent term will expire at the 2025 Annual Meeting of Stockholders; and Class III, whose term will expire at the 2023 Annual Meeting of Stockholders and whose subsequent term will expire at the 2026 Annual Meeting of Stockholders. The current Class I Directors are Edward Anderson, Konstantin Poukalov and Nancy L. Snyderman, M.D., FACS; the current Class II Directors are Michael Altman and C. Ann Merrifield; and the current Class III Directors are Maria Palasis, Ph.D. and W. Bradford Smith.

Our Restated Certificate of Incorporation and Amended and Restated Bylaws provide that the authorized number of directors may be changed from time to time by the Board of Directors. Any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors. The division of our Board of Directors into three classes with staggered three-year terms may delay or prevent a change of our management or a change in control of our Company. Our directors may be removed only for cause by the affirmative vote of the holders of at least two-thirds of our outstanding voting stock entitled to vote in the election of directors.

If you submit a proxy but do not indicate any voting instructions, the persons named as proxies will vote the shares of common stock represented thereby for the election as Class I Directors of the persons whose names and biographies appear below. In the event that any of Mr. Anderson, Mr. Poukalov or Dr. Snyderman should become unable to serve, or for good cause will not serve, as a director, it is intended that votes will be cast for a substitute nominee designated by the Board of Directors or the Board may elect to reduce its size. The Board of Directors has no reason to believe that any of Mr. Anderson, Mr. Poukalov or Dr. Snyderman will be unable to serve if elected. Each of Mr. Anderson, Mr. Poukalov and Dr. Snyderman has consented to being named in this proxy statement and to serve if elected.

Vote required

The proposal regarding the election of directors requires the approval of a plurality of the votes cast. This means that the three nominees receiving the highest number of affirmative "FOR" votes will be elected as Class I Directors.

Votes withheld and broker non-votes are not considered to be votes cast and, accordingly, will have no effect on the outcome of the vote on this proposal.

Recommendation of the Board of Directors

igveeThe Board of Directors unanimously recommends a vote FOR the election of each of the below Class I Director nominees.

Nominees For Class I Director (terms to expire at the 2024 Annual Meeting)

The current members of the Board of Directors who are also nominees for election to the Board of Directors as Class I Directors are as follows:

| Name | Age | Served as a Director Since | Position with Lyra |
|--------------------------------|-----|-------------------------------|-----------------------|
| Edward Anderson | 71 | 2019 | Director |
| Konstantin Poukalov | 37 | 2020 | Director |
| Nancy L. Snyderman, M.D., FACS | 69 | 2020 | Director |

The principal occupations and business experience, for at least the past five years, of each Class I Director nominee for election at the 2021 Annual Meeting are as follows:

Edward Anderson

Edward Anderson has served as a member of our Board of Directors since February 2019. Since June 1994, Mr. Anderson has served as the Founder and a Managing Partner at North Bridge Venture Partners & Growth Equity, a venture capital firm. Mr. Anderson holds a B.F.A. from the University of Denver and an M.B.A. from Columbia University Graduate School of Business. We believe that Mr. Anderson's extensive experience in venture capital investments qualifies him to serve on our Board of Directors.

Konstantin Poukalov

Konstantin Poukalov has served as a member of our Board of Directors since January 2020. Since March 2019, Mr. Poukalov has served as Managing Director at Perceptive Advisors, a life sciences focused investment firm. Since August 2019, Mr. Poukalov has also served on the Board of Directors of Landos Biopharma, Inc., a biopharmaceutical company. From July 2012 to October 2018, Mr. Poukalov served in roles of increasing responsibility at Kadmon Holdings, Inc., a biopharmaceutical company, most recently serving as Executive Vice President and Chief Financial Officer from July 2014 to October 2018. Mr. Poukalov holds a B.S. in Electrical Engineering from Stony Brook University. We believe that Mr. Poukalov's extensive financial and industry experience qualify him to serve on our Board of Directors.

Nancy L. Snyderman, M.D., FACS

Nancy Snyderman, M.D., FACS has served as a member of our Board of Directors since October 2020. Dr. Snyderman has also served on the boards of directors of Axonics Modulation Technologies, Inc., a medical device company, since April 2019 and Alkermes plc, a biopharmaceutical company, since May 2016. From 2006 to 2018, Dr. Snyderman served as an advisory board member to GE's Healthymagination, General Electric Company's healthcare initiative. From 2003 to 2008, Dr. Snyderman also served as a vice president for corporate communications at Johnson & Johnson. Dr. Snyderman is a board-certified head and neck surgeon and has had academic appointments at the University of Pennsylvania and the University of California-San Francisco. From 2016 to 2018, she served as a professor at the Center for Innovation for Global Health at Stanford University. Dr. Snyderman is an Emmy award winning medical correspondent, having worked at ABC News from 1987 to 2003 and later as chief medical editor at NBC News from 2004 to 2015. Dr. Snyderman holds a B.A. in Microbiology from Indiana University of Pittsburgh. We believe that Dr. Snyderman's extensive experience as a veteran healthcare journalist, a practicing physician, and an executive at a pharmaceutical company, as well as her roles in academia and as advisor to policy organizations, qualify her to serve on our Board of Directors.

Continuing members of the Board of Directors:

Class II Directors (terms to expire at the 2022 Annual Meeting)

The current members of the Board of Directors who are Class II Directors are as follows:

| Name | Age | Served as a Director Since | Position with Lyra |
|-------------------|-----|-------------------------------|-----------------------|
| Michael Altman | 39 | 2018 | Director |
| C. Ann Merrifield | 70 | 2019 | Director |

The principal occupations and business experience, for at least the past five years, of each Class II Director are as follows:

Michael Altman

Michael Altman has served as a member of our Board of Directors since June 2018. Since 2007, Mr. Altman has been employed on the investment team at Perceptive Advisors, a life sciences focused investment firm, where he currently serves as Managing Director and focuses on medical devices, diagnostics, digital health and specialty pharmaceuticals investments. Since October 2018, Mr. Altman has also served as Chief Financial Officer and member of the Board of Directors of ARYA Sciences Acquisition Corp., a special purpose acquisition company. From October 2005 to October 2007, Mr. Altman served as a healthcare trader and analyst at First New York Securities. Mr. Altman has served on the Board of Directors of Vitruvius Therapeutics, Inc., a pharmaceutical company, since December 2017, and served on the Board of Directors of Vensun Pharmaceuticals, Inc., a pharmaceutical company, from November 2016 to January 2019. Mr. Altman holds a B.S. in Business Administration from the University of Vermont. We believe that Mr. Altman's broad operational and transactional experience qualifies him to serve on our Board of Directors.

C. Ann Merrifield

C. Ann Merrifield has served as a member of our Board of Directors since September 2019. Ms. Merrifield has also served as a member of the boards of directors for a portfolio of public and private companies in the life sciences sector which include Flexion Therapeutics, Inc., since June 2014, and InVivo Therapeutics Holdings Corp., since November 2014. From July 2015 to August 2018, she served as a director of Juniper Pharmaceuticals, Inc., a healthcare company, until it was acquired by Catalent, Inc. and from December 2016 to January 2019, she served as a director of Veritas Genetics, Inc. Ms. Merrifield also serves as a Trustee for MassMutual Premier, Select and MML Series Investment Funds, Partners Continuing Care (the post-acute care services division of Partners HealthCare), the Huntington Theatre Company and the YMCA of Greater Boston. From November 2012 to July 2014, Ms. Merrifield served as President, Chief Executive Officer and director of PathoGenetix Inc., a genomics company, which voluntarily filed for Chapter 7 bankruptcy in July 2014. Before that, Ms. Merrifield spent 18 years at Genzyme Corporation, serving in several leadership roles, including President of Genzyme Biosurgery, President of Genzyme Genetics and Senior Vice President, Business Excellence. Ms. Merrifield holds a B.A. in Zoology and a Master of Education from the University of Maine and an M.B.A. from the Tuck School of Business at Dartmouth College. We believe that Ms. Merrifield's extensive industry experience qualifies her to serve on our Board of Directors.

Class III Directors (terms to expire at the 2023 Annual Meeting)

The current members of the Board of Directors who are Class III Directors are as follows:

| <u>Name</u> Maria Palasis, Ph.D. | Age 56 | Served as a Director Since 2015 | Position with Lyra President, Chief Executive Officer and Director |
|-------------------------------------|-----------|---------------------------------------|-----------------------------------------------------------------------------|
| W. Bradford Smith | 65 | 2019 | Director |

The principal occupations and business experience, for at least the past five years, of each Class III Director are as follows:

Maria Palasis, Ph.D.

Maria Palasis, Ph.D. has served as our President and Chief Executive Officer and a member of our Board of Directors since January 2015. Prior to her role with us as President and Chief Executive Officer, Dr. Palasis held positions of increasing responsibility, the most recent of which was Executive Vice President and Chief Technology Officer from 2011 to 2015. Before that, in 2008, Dr. Palasis joined Arsenal Medical, Inc., a biotechnology company, as Executive Vice President and subsequently served as President and Chief Executive Officer and a member of the Board of Directors of Arsenal Medical from January 2015 to June 2018. Before that, from November 1995 to January 2008, Dr. Palasis was employed with the title of Director at Boston Scientific Corporation, a medical device company, where she managed a portfolio of external biotech and medical device investments and led the development of several combination therapies. Dr. Palasis holds a B.S. and Ph.D. in Chemical Engineering from the University of Cincinnati, and she held a postdoctoral fellowship in molecular biology at the University of Cincinnati School of Medicine. We believe that Dr. Palasis' experience in the industry and knowledge of our company qualifies her to serve on our Board of Directors.

W. Bradford Smith

W. Bradford Smith has served a member of our Board of Directors since November 2019. Mr. Smith has served as Chief Financial Officer and Treasurer of Homology Medicines, Inc., a genetic medicines company, since April 2017 and as Secretary since July 2017. From March 2014 to April 2017, Mr. Smith was Chief Financial Officer of Ocular Therapeutix, Inc., a biopharmaceutical company. Prior to joining Ocular Therapeutix, Mr. Smith served as Chief Financial Officer of OmniGuide, Inc., a medical device company, from July 2008 to March 2014. Mr. Smith holds a B.S. in Biology from Tufts University and an M.B.A. from the Whittemore School of Business and Economics at the University of New Hampshire. We believe that Mr. Smith's extensive financial and industry experience qualify him to serve on our Board of Directors.

Proposal 2: Ratification of Appointment of Independent Registered Public Accounting Firm

Our Audit Committee has appointed BDO USA, LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2021. Our Board has directed that this appointment be submitted to our stockholders for ratification at the Annual Meeting. Although ratification of our appointment of BDO USA, LLP is not required, we value the opinions of our stockholders and believe that stockholder ratification of our appointment is a good corporate governance practice.

BDO USA, LLP also served as our independent registered public accounting firm for the fiscal year ended December 31, 2020. Neither the accounting firm nor any of its members has any direct or indirect financial interest in or any connection with us in any capacity other than as our auditors, providing audit and non-audit related services. A representative of BDO USA, LLP is expected to attend the 2021 Annual Meeting and to have an opportunity to make a statement and be available to respond to appropriate questions from stockholders.

In the event that the appointment of BDO USA, LLP is not ratified by the stockholders, the Audit Committee will consider this fact when it appoints the independent registered public accounting firm for the fiscal year ending December 31, 2022. Even if the appointment of BDO USA, LLP is ratified, the Audit Committee retains the discretion to appoint a different independent auditor at any time if it determines that such a change is in the interest of the Company.

Vote Required

This proposal requires the affirmative vote of the holders of a majority in voting power of the votes cast affirmatively or negatively. Abstentions are not considered to be votes cast and, accordingly, will have no effect on the outcome of the vote on this proposal. Because brokers have discretionary authority to vote on the ratification of the appointment of BDO USA, LLP, we do not expect any broker non-votes in connection with this proposal.

Recommendation of the Board of Directors

The Board of Directors unanimously recommends a vote FOR the Ratification of the Appointment of BDO USA, LLP as our Independent Registered Public Accounting Firm for the fiscal year ending December 31, 2021.



REPORT OF THE AUDIT COMMITTEE OF THE BOARD OF DIRECTORS

The Audit Committee has reviewed the audited consolidated financial statements of Lyra Therapeutics, Inc. (the "Company") for the fiscal year ended December 31, 2020 and has discussed these financial statements with management and the Company's independent registered public accounting firm. The Audit Committee has also received from, and discussed with, the Company's independent registered public accounting firm various communications that such independent registered public accounting firm is required to provide to the Audit Committee, including the matters required to be discussed by the applicable requirements of the Public Company Accounting Oversight Board ("PCAOB") and the Securities and Exchange Commission.

The Company's independent registered public accounting firm also provided the Audit Committee with a formal written statement required by PCAOB Rule 3526 (Communications with Audit Committees Concerning Independence) describing all relationships between the independent registered public accounting firm and the Company, including the disclosures required by the applicable requirements of the PCAOB regarding the independent registered public accounting firm's communications with the Audit Committee concerning independence. In addition, the Audit Committee discussed with the independent registered public accounting firm its independence from the Company.

Based on its discussions with management and the independent registered public accounting firm, and its review of the representations and information provided by management and the independent registered public accounting firm, the Audit Committee recommended to the Board of Directors that the audited consolidated financial statements be included in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2020.

W. Bradford Smith (Chair) Edward Anderson C. Ann Merrifield

INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FEES AND OTHER MATTERS

The following table summarizes the fees of BDO USA, LLP, our independent registered public accounting firm, billed to us for each of the last two fiscal years for audit services and billed to us in each of the last two fiscal years for other services:

| Fee Category | 2020 | 2019 | | |
|---------------------------|---------------|------|---------|--|
| Audit Fees ⁽¹⁾ | \$ 237,725 | \$ | 350,000 | |
| Audit-Related Fees(2) | \$ — | \$ | — | |
| Tax Fees(3) | \$ 8,700 | \$ | 8,425 | |
| All Other Fees | \$ _ | \$ | _ | |
| Total Fees | \$ 246,425 | \$ | 358,425 | |

- (1) Audit fees consist of fees for the audit of our financial statements, the review of the interim financial statements included in our quarterly reports on Form 10-Q, and other professional services provided in connection with statutory and regulatory filings or engagements. Audit fees also includes fees for services incurred in connection with our initial public offering.
- (2) Audit-related fees consist of fees that are reasonably related to the performance of the audit and the review of our financial statements and which are not reported under "Audit Fees."
- (3) Tax fees consist of fees for tax-related services, including tax compliance and tax advice.

Audit Committee Pre-Approval Policy and Procedures

The Audit Committee has adopted a policy (the "Pre-Approval Policy") that sets forth the procedures and conditions pursuant to which audit and non-audit services proposed to be performed by the independent auditor may be pre-approved. The Pre-Approval Policy generally provides that we will not engage BDO USA, LLP to render any audit, audit-related, tax or permissible non-audit service unless the service is either (i) explicitly approved by the Audit Committee ("specific pre-approval") or (ii) entered into pursuant to the pre-approval policies and procedures described in the Pre-Approval Policy ("general pre-approval"). Unless a type of service to be provided by BDO USA, LLP has received general pre-approval under the Pre-Approval Policy, it requires specific pre-approval by the Audit Committee or by a designated member of the Audit Committee to whom the committee has delegated the authority to grant pre-approvals. Any proposed services exceeding pre-approved cost levels or budgeted amounts will also require specific pre-approval. For both types of pre-approval, the Audit Committee will consider whether such services are consistent with the SEC's rules on auditor independence. The Audit Committee will also consider whether the independent auditor is best positioned to provide the most effective and efficient service, for reasons such as its familiarity with the Company's business, people, culture, accounting systems, risk profile and other factors, and whether the service might enhance the Company's ability to manage or control risk or improve audit quality. All such factors will be considered as a whole, and no one factor should necessarily be determinative. The Audit Committee may revise the list of general pre-approved services from time to time, based on subsequent determinations.

EXECUTIVE OFFICERS

The following table identifies our current executive officers:

| Name | Age | Position |
|--------------------------------------|-----|---------------------------------------------------------------------|
| Maria Palasis, Ph.D. ⁽¹⁾ | 56 | President, Chief Executive Officer and Director |
| R. Don Elsey (2) | 68 | Chief Financial Officer, Treasurer and Secretary |
| Robert Richard, Ph.D. ⁽³⁾ | 64 | Senior Vice President of Research and Development |
| Pamela Nelson ⁽⁴⁾ | 51 | Senior Vice President of Regulatory Affairs |
| Corinne Noyes (5) | 53 | Senior Vice President of Commercial Strategy and Market Development |
| | | |

(1) See biography on page 10 of this proxy statement.

- (2) R. Don Elsey has served as our Chief Financial Officer since August 2019 and as our Treasurer and Secretary since October 2019. Prior to joining our company, from February 2015 to February 2019, Mr. Elsey served as Chief Financial Officer at Senseonics, Inc., a medical device company. From May 2014 until February 2015, Mr. Elsey served as Chief Financial Officer of Regado Biosciences, Inc., a biopharmaceutical company. From December 2012 to February 2014, Mr. Elsey served as Chief Financial Officer of LifeCell Corporation, a privately held regenerative medicine company. Mr. Elsey holds a B.A. in economics and an M.B.A. in finance from Michigan State University.
- (3) Robert Richard, Ph.D., has served as our Senior Vice President of Research and Development since June 2020. Prior to joining our company, from February 2019 to May 2020, Dr. Richard served as Vice President of Research and Development at Anika Therapeutics, Inc., a therapeutics company. Prior to that, he held research and development leadership positions at Hyalex Orthopaedics, Inc., a medical device company, from November 2017 to February 2019, C.R. Bard, Inc., a medical device company, from June 2008 to November 2017, Boston Scientific Corporation, a global medical device company, from September 2000 to June 2008, and Johnson & Johnson, a global medical device, pharmaceutical and consumer product company, from September 1991 to August 2000. Dr. Richard holds a B.S. in chemistry and a B.S. in biology from University of Massachusetts at Dartmouth and a Ph.D. in polymer chemistry and plastics engineering from the University of Massachusetts at Lowell.
- (4) Pamela Nelson has served as our Senior Vice President of Regulatory Affairs since August 2020. Prior to joining our company, from January 2011 to July 2020, Ms. Nelson served as Vice President, Regulatory Affairs at Avedro, Inc., a medical technology company. Prior to that, she held regulatory positions at Alnara Pharmaceuticals, Inc., a biotechnology company from June 2009 to December 2010, Altus Pharmaceuticals Inc., a biopharmaceutical company from February 2006 to May 2009, Alkermes PLC, a global biopharmaceutical company, from July 1998 to January 2006 and Genzyme Corporation, a global biotechnology company, from January 1995 to June 1998. Ms. Nelson holds a B.A. in English and an M.A. in education administration from the University of Massachusetts at Amherst.
- (5) Corinne Noyes has served as our Senior Vice President of Commercial Strategy and Market Development since September 2018. Prior to joining our company, from January 2018 to August 2018, Ms. Noyes served as an independent contractor to our Company, providing biopharmaceutical consulting services. Before that, from January 2005 to August 2018, Ms. Noyes worked as a strategic advisor and independent biopharmaceutical consultant providing commercial leadership to emerging life sciences companies, including, among others, AMAG Pharmaceuticals, Inc., Avila Therapeutics, Inc. (Celgene Corporation), Adnexus Therapeutics Inc. (Bristol-Myers Squibb Company), Constellation Pharmaceuticals, Inc. and Editas Medicine, Inc. Before that, from 1997 to 2004, Ms. Noyes held various commercial leadership positions at Biogen Inc., a biotechnology company. Prior to joining Biogen Inc., from 1992 to 1996, Ms. Noyes worked as a health care strategy consultant at Deloitte & Touche LLP. Ms. Noyes holds a B.A. in Humanities and a B.B.A. in Business from St. Mary's College of Notre Dame and an M.B.A. in finance from University of Chicago Graduate School of Business.

CORPORATE GOVERNANCE

General

Our Board of Directors has adopted Corporate Governance Guidelines, a Code of Business Conduct and Ethics, and charters for our Nominating and Corporate Governance Committee, Audit Committee and Compensation Committee to assist the Board in the exercise of its responsibilities and to serve as a framework for the effective governance of the Company. You can access our current committee charters, our Corporate Governance Guidelines, and our Code of Business Conduct and Ethics in the "Governance" section of the "Investors & News" page of our website located at *www.lyratherapeutics.com*, or by writing to our Secretary at our offices at 480 Arsenal Way, Watertown, Massachusetts 02472.

Board Composition

Our Board of Directors currently consists of seven members: Michael Altman, Edward Anderson, C. Ann Merrifield, Maria Palasis, Ph.D., Konstantin Poukalov, W. Bradford Smith and Nancy L. Snyderman, M.D., FACS. As set forth in our Restated Certificate of Incorporation, the Board of Directors is currently divided into three classes with staggered, three-year terms. At each annual meeting of stockholders, the successors to directors whose terms then expire will be elected to serve from the time of election and qualification until the third annual meeting following election. Our Restated Certificate of Incorporation and Amended and Restated Bylaws provide that the authorized number of directors may be changed only by resolution of the Board of Directors. Any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors. The division of our Board of Directors may be removed only for cause by the affirmative vote of the holders of at least two-thirds in voting power of the outstanding shares of our capital stock entitled to vote in the election of directors.

Director Independence

Our Board of Directors has determined that each of Michael Altman, Edward Anderson, C. Ann Merrifield, Konstantin Poukalov, W. Bradford Smith and Nancy Snyderman, M.D., FACS qualify as "independent" in accordance with the listing requirements of Nasdaq. Our Board of Directors previously determined that Robert S. Langer, Sc.D., who resigned from the board on October 26, 2020, qualified as "independent" while he served on the board, in accordance with the listing requirements of Nasdaq. The Nasdaq independence definition includes a series of objective tests, including that the director is not, and has not been for at least three years, one of our employees and that neither the director nor any of his family members has engaged in various types of business dealings with us. In addition, as required by Nasdaq rules, our Board of Directors has made a subjective determination as to each independent director that no relationships exist, which, in the opinion of our Board of Directors, would interfere with the exercise of independent judgment in carrying out the responsibilities of a director. In making these determinations, our Board of Directors reviewed and discussed information provided by the directors and us with regard to each director's business and personal activities and relationships as they may relate to us and our management, including that Mr. Altman, Mr. Anderson and Mr. Poukalov are affiliated with certain of our significant stockholders. Maria Palasis, Ph.D. is not independent and George Whitesides, Ph.D., who resigned from the board on October 26, 2020, was not independent while he served on the Board. There are no family relationships among any of our directors or executive officers.

Director Candidates

The Nominating and Corporate Governance Committee is primarily responsible for searching for qualified director candidates for election to the Board and filling vacancies on the Board. To facilitate the search process, the Nominating and Corporate Governance Committee may solicit current directors and executives of the Company for the names of potentially qualified candidates or ask directors and executives to pursue their own business contacts for the names of potentially qualified candidates. The Nominating and Corporate Governance Committee may also consult with outside advisors or retain search firms to assist in the search for qualified candidates, or consider director candidates recommended by our stockholders. Once potential candidates are identified, the Nominating and Corporate Governance Committee reviews the backgrounds of those candidates, evaluates candidates' independence from the Company and potential conflicts of interest and determines if candidates meet the qualifications desired by the Nominating and Corporate Governance Committee for candidates for election as a director. Konstantin Poukalov, one of our Class I Director nominees, was initially identified as a potential director candidate by one of our shareholders, North Bridge Venture Partners.



In evaluating the suitability of individual candidates (both new candidates and current Board members), the Nominating and Corporate Governance Committee, in recommending candidates for election, and the Board, in approving (and, in the case of vacancies, appointing) such candidates, may take into account many factors, including: personal and professional integrity, ethics and values; experience in corporate management, such as serving as an officer or former officer of a publicly held company; strong finance experience; relevant social policy concerns; experience relevant to the Company's industry; experience as a board member or executive officer of another publicly held company; relevant academic expertise or other proficiency in an area of the Company's operations; diversity of expertise and experience in substantive matters pertaining to the Company's business relative to other board members; diversity of background and perspective, including, but not limited to, with respect to age, gender, race, place of residence and specialized experience; practical and mature business judgment, including, but not limited to, the ability to make independent analytical inquiries; and any other relevant qualifications, attributes or skills. The Board evaluates each individual in the context of the Board as a whole, with the objective of assembling a group that can best perpetuate the success of the business and represent stockholder interests through the exercise of sound judgment using its diversity of experience in these various areas. In determining whether to recommend a director for re-election, the Nominating and Corporate Governance Committee may also consider the director's past attendance at meetings and participation in and contributions to the activities of the Board.

Stockholders may recommend individuals to the Nominating and Corporate Governance Committee for consideration as potential director candidates by submitting the names of the recommended individuals, together with appropriate biographical information and background materials, to the Nominating and Corporate Governance Committee, c/o Secretary, Lyra Therapeutics, Inc., 480 Arsenal Way, Watertown, Massachusetts 02472. In the event there is a vacancy, and assuming that appropriate biographical and background material has been provided on a timely basis, the Nominating and Corporate Governance Committee will evaluate stockholder-recommended candidates by following substantially the same process, and applying substantially the same criteria, as it follows for candidates submitted by others.

Communications from Stockholders

The Board will give appropriate attention to written communications that are submitted by stockholders, and will respond if and as appropriate. Our Secretary is primarily responsible for monitoring communications from stockholders and for providing copies or summaries to the directors as he considers appropriate.

Communications are forwarded to all directors if they relate to important substantive matters and include suggestions or comments that our Secretary and Chairperson of the Board consider to be important for the directors to know. In general, communications relating to corporate governance and long-term corporate strategy are more likely to be forwarded than communications relating to ordinary business affairs, personal grievances and matters as to which we tend to receive repetitive or duplicative communications. Stockholders who wish to send communications on any topic to the Board should address such communications to the Board of Directors in writing: c/o Secretary, Lyra Therapeutics, Inc., 480 Arsenal Way, Watertown, Massachusetts 02472.

Board Leadership Structure and Role in Risk Oversight

Our Board of Directors is currently chaired by Maria Palasis, Ph.D., our Chief Executive Officer. Our Corporate Governance Guidelines provide that, if the chairperson of the Board is a member of management or does not otherwise qualify as independent, the independent directors of the Board may elect an independent lead director. C. Ann Merrifield currently serves as our lead director. The lead director's responsibilities include, but are not limited to: presiding over all meetings of the Board of Directors at which the chairperson is not present, including any executive sessions of the independent directors; approving Board meeting schedules and agendas; and acting as the liaison between the independent directors to modify our leadership structure in the future as it deems appropriate. Our Board has determined that combining the roles of Chair of the Board and Chief Executive Officer is in the best interests of our Company and its stockholders at this time because it promotes unified leadership by Dr. Palasis and allows for a single, clear focus for management to execute the Company's strategy and business plans. For these reasons and because of the strong leadership of Dr. Palasis, our Board has concluded that our current leadership structure is appropriate at this time. However, our Board of Directors will continue to periodically review our leadership structure and may make such changes in the future as it deems appropriate.

Risk assessment and oversight are an integral part of our governance and management processes. Our Board of Directors encourages management to promote a culture that incorporates risk management into our corporate strategy and day-to-day business operations. Management discusses strategic and operational risks at regular management meetings and conducts specific strategic planning and review sessions during the year that include a focused discussion and analysis of the risks facing us. Throughout the year, senior management reviews these risks with the Board of Directors at regular Board meetings as part of management presentations that focus on particular business functions, operations or strategies, and presents the steps taken by management to mitigate or eliminate such risks. Our Board of Directors does not have a standing risk management committee, but rather administers this oversight function directly through the Board of Directors as a whole, as well as through various standing committees of the Board of Directors that address risks inherent in their respective areas of oversight. In particular, our Board of Directors is responsible for monitoring and assessing strategic risk exposure, including business continuity risks, such as risks relating to the COVID-19 pandemic, and our Audit Committee is responsible for overseeing our financial and cybersecurity risk exposures and the steps our management has taken to monitor and control these exposures. The Audit Committee also monitors compliance with legal and regulatory requirements and considers and approves or disapproves any related person transactions. Our Nominating and Corporate Governance Governance Guidelines. Our Compensation Committee oversees the management of risks relating to the Company's corporate governance framework and the Board's leadership structure, and monitors the effectiveness of the Corporate Governance Guidelines. Our Compensation Committee oversees the management of risks relating to the Company's executive compensation plans and

Code of Ethics

The Board has adopted a written code of business conduct, the "Code of Business Conduct and Ethics", that applies to all of our directors, officers and employees, including our principal executive officer, principal financial officer and principal accounting officer. A copy of the code is available on our website at www.lyratherapeutics.com in the "Governance" section of the "Investors & News" page. In addition, we intend to post on our website all disclosures that are required by law or The Nasdaq Stock Market LLC concerning any amendments to, or waivers from, any provision of our Code of Business Conduct and Ethics.

Anti-Hedging Policy

Our Board of Directors has adopted an Insider Trading Compliance Policy, which applies to all of our directors, officers and employees. The policy prohibits our directors, officers and employees and any entities they control from purchasing financial instruments such as prepaid variable forward contracts, equity swaps, collars, and exchange funds, or otherwise engaging in transactions that hedge or offset, or are designed to hedge or offset, any decrease in the market value of the Company's equity securities, or that may cause an officer, director, or employee to no longer have the same objectives as the Company's other stockholders.

Attendance by Members of the Board of Directors at Meetings

There were seven meetings of the Board of Directors during the fiscal year ended December 31, 2020. During the fiscal year ended December 31, 2020, each director, during the period in which he or she served as a director, attended at least 75% of the aggregate of (i) all meetings of the Board of Directors and (ii) all meetings of the committees on which the director served.

Under our Corporate Governance Guidelines, which is available on our website at *www.lyratherapeutics.com*, a director is expected to spend the time and effort necessary to properly discharge his or her responsibilities. Accordingly, a director is expected to regularly prepare for and attend meetings of the Board and all committees on which the director sits (including separate meetings of the independent directors), with the understanding that, on occasion, a director may be unable to attend a meeting. A director who is unable to attend a meeting of the Board or a committee of the Board is expected to notify the Chairperson of the appropriate committee in advance of such meeting, and, whenever possible, participate in such meeting via teleconference in the case of an in-person meeting. We do not maintain a formal policy regarding director attendance at the Annual Meeting; however, it is expected that absent compelling circumstances directors will attend.

COMMITTEES OF THE BOARD

Our Board has established three standing committees—Audit, Compensation and Nominating and Corporate Governance—each of which operates under a written charter that has been approved by our Board.

The members of each of the Board committees and committee Chairpersons are set forth in the following chart.

| Name | Audit | Compensation | Nominating and Corporate Governance |
|-----------------------------|-------------|--------------|-------------------------------------------|
| Edward Anderson | Х | | |
| C. Ann Merrifield | Х | Chairperson | Chairperson |
| W. Bradford Smith | Chairperson | Х | Х |
| Nancy Snyderman, M.D., FACS | | Х | |

Audit Committee

Our Audit Committee's responsibilities include, among other things:

- appointing, approving the compensation of, and assessing the independence of our registered public accounting firm;
- overseeing the work of our registered public accounting firm, including through the receipt and consideration of reports from such firm;
- reviewing and discussing with management and the registered public accounting firm our annual and quarterly financial statements and related disclosures;
- coordinating our Board of Directors' oversight of our internal control over financial reporting, disclosure controls and procedures and code of business conduct and ethics;
- discussing our risk management policies;
- meeting independently with our internal auditing staff, if any, registered public accounting firm and management;
- reviewing and approving or ratifying any related person transactions; and
- preparing the audit committee report required by SEC rules.

The Audit Committee charter is available on our website at *www.lyratherapeutics.com*. The members of the Audit Committee are Mr. Anderson, Ms. Merrifield and Mr. Smith. Mr. Smith serves as the Chairperson of the committee. Our Board has affirmatively determined that each of Mr. Anderson, Ms. Merrifield and Mr. Smith is independent for purposes of serving on an audit committee under Rule 10A-3 promulgated under the Securities and Exchange Act of 1934, as amended (the "Exchange Act") and Nasdaq rules, including those related to Audit Committee membership.

The members of our Audit Committee meet the requirements for financial literacy under the applicable Nasdaq rules. In addition, our Board of Directors has determined that Mr. Smith qualifies as an "audit committee financial expert," as such term is defined in Item 407(d)(5) of Regulation S-K, and under the similar Nasdaq rules requirement that the Audit Committee have a financially sophisticated member.

The Audit Committee met seven times in 2020.

Compensation Committee

Our Compensation Committee's responsibilities include, among other things:

- reviewing, modifying (as needed) and approving (or if it deems appropriate, making recommendations to our Board of Directors regarding) the overall compensation strategy and policies for the Company;
- evaluating and making recommendations to our Board of Directors regarding the compensation plans and programs advisable for the Company, as well as the modification or termination of existing plans and programs;
- determining and recommending to our Board for determination and approval the compensation and other terms of employment of our CEO;
- determining and approving the compensation and other terms of employment for each executive officer;
- making recommendations to our Board regarding the type and amount of compensation to be paid or awarded to non-employee members of our Board;
- reviewing and discussing annually with management our "Compensation Discussion and Analysis," to the extent required; and
- preparing the annual compensation committee report required by SEC rules, to the extent required.

The Compensation Committee generally considers the Chief Executive Officer's recommendations when making decisions regarding the compensation of non-employee directors and executive officers (other than the Chief Executive Officer). Pursuant to the Compensation Committee's charter, which is available on our website at *www.lyratherapeutics.com*, the Compensation Committee has the authority to retain or obtain the advice of compensation consultants, legal counsel and other advisors to assist in carrying out its responsibilities. In 2020, the Compensation Committee engaged Pearl Meyer, a compensation consulting firm ("Pearl Meyer"), to assist in making decisions regarding the amount and types of compensation to provide our executive officers and non-employee directors. As part of this process, the Compensation Committee reviewed a compensation assessment provided by Pearl Meyer comparing our compensation to that of a group of peer companies within our industry and met with Pearl Meyer to discuss our executive and non-employee director compensation and to receive input and advice. Pearl Meyer reports directly to the Compensation Committee. The Compensation Committee has considered the adviser independence factors required under SEC rules as they relate to Pearl Meyer and has determined that Pearl Meyer's work does not raise a conflict of interest.

The Compensation Committee may delegate its authority under its charter to one or more subcommittees as it deems appropriate from time to time. The Compensation Committee may also delegate to an officer the authority to grant equity awards to certain employees, as further described in its charter and subject to the terms of our equity plans.

The members of our Compensation Committee are Ms. Merrifield, Mr. Smith and Dr. Snyderman. Ms. Merrifield serves as the Chairperson of the Compensation Committee. Each member of the Compensation Committee qualifies as an independent director under Nasdaq's heightened independence standards for members of a compensation committee and as a "non-employee director" as defined in Rule 16b-3 of the Exchange Act.

The Compensation Committee met four times in 2020.

Nominating and Corporate Governance Committee

Our Nominating and Corporate Governance Committee's responsibilities include, among other things:

- identifying individuals qualified to become board members;
- recommending to our Board of Directors the persons to be nominated for election as directors and to be appointed to each board committee;
- developing and recommending to our Board of Directors corporate governance guidelines, and reviewing and recommending to our Board of Directors proposed changes to our corporate governance guidelines from time to time;
- reviewing the Board's leadership structure; and
- overseeing a periodic evaluation of our Board of Directors.

The Nominating and Corporate Governance Committee charter is available on our website at *www.lyratherapeutics.com*. The members of our Nominating and Corporate Governance Committee are Ms. Merrifield and Mr. Smith. Ms. Merrifield serves as the Chairperson of the Nominating and Corporate Governance Committee. The Nominating and Corporate Governance Committee has the authority to consult with outside advisors or retain search firms to assist in the search for qualified candidates, or consider director candidates recommended by our stockholders.

The Nominating and Corporate Governance Committee met two times in 2020.

EXECUTIVE AND DIRECTOR COMPENSATION

This section discusses the material components of the executive compensation program for our executive officers who are named in the "2020 Summary Compensation Table" below. In 2020, our "named executive officers" and their positions were as follows:

- Maria Palasis, Ph.D., President and Chief Executive Officer;
- R. Don Elsey, Chief Financial Officer; and
- Robert Richard, Ph.D., Senior Vice President of Research and Development.

Dr. Richard commenced employment with us effective June 22, 2020.

2020 Summary Compensation Table

The following table sets forth information concerning the compensation of our named executive officers for the years shown.

| Name and Principal Position Maria Palasis, Ph.D. President and Chief Executive Officer | <u>Year</u> 2020 | Salary (\$) 470,520 | Option Awards(1) (\$) 3,547,671 | Non-Equity Incentive Plan Compensation(2) (\$) 275,000 | All Other Compensation (\$) 8,550 | (3) | Total (\$) 4,301,741 |
|----------------------------------------------------------------------------------------------|---------------------|---------------------------|------------------------------------------|--------------------------------------------------------------------|--------------------------------------------|-----|----------------------------|
| | 2019 | 388,025 | 318,850 | 135,809 | | | 842,684 |
| R. Don Elsey Chief Financial Officer | 2020 | 362,558 | 224,350 | 150,000 | 23,778 | (4) | 760,686 |
| | 2019 | 130,625 | 501,247 | 41,671 | 64,235 | | 737,778 |
| Robert Richard, Ph.D. ⁽⁵⁾ Senior Vice President of Research and Development | 2020 | 164,127 | 300,043 | 81,000 | 4,428 | (3) | 549,598 |

- (1) Amounts represent the full grant date fair value of stock options granted during 2020 computed in accordance with ASC Topic 718, rather than the amounts paid to or realized by the named individual. We provide information regarding the assumptions used to calculate the value of all option awards made to named executive officers in Note 8 to the consolidated financial statements included in our Annual Report on Form 10-K filed on March 9, 2021.
- (2) Amounts represent performance-based annual cash bonuses made by our Board of Directors for the named executive officers for fiscal year 2020.
- (3) Amounts represent company 401(k) matching contributions.
- (4) The amount represents company 401(k) matching contributions and use of a corporate apartment, commuting expenses and related tax grossups.
- (5) Dr. Richard commenced employment with us in June 2020.

Narrative to Summary Compensation Table

2020 Salaries

The named executive officers receive a base salary to provide a fixed component of compensation reflecting the executive's skill set, experience, role and responsibilities. For 2020, the initial base salaries for Dr. Palasis and Mr. Elsey were \$401,606 and \$329,740, respectively. In connection with our initial public offering ("IPO"), our Board of Directors approved increasing the base salaries of Dr. Palasis and Mr. Elsey to \$500,000 and \$375,000, respectively, effective upon the closing of the offering in May 2020. Dr. Richard's base salary was set at \$307,000 in connection with his commencement of employment with us in June 2020.

2020 Bonuses

We offer our named executive officers the opportunity to earn annual cash bonuses to compensate them for attaining short-term company goals as approved by our Board of Directors. For 2020, bonuses were based entirely on attaining clinical, research and development, strategic, capital raising and financial goals. The 2020 target bonuses for each of Dr. Palasis, Mr. Elsey and Dr. Richard were 55%, 40% and 35%, respectively, of his or her annual base salary. The target bonuses for Dr. Palasis and Mr. Elsey were increased from 35% and 30%, respectively, in connection with our initial public offering, and Dr. Richard's target bonus was set in connection with his commencement of employment with us in June 2020. Dr. Richard's bonus for 2020 was prorated to reflect his partial year of employment. The actual annual cash bonuses awarded to each named executive officer for 2020 performance are set forth above in the 2020 Summary Compensation Table in the column titled "Non-Equity Incentive Plan Compensation".

Equity Compensation

We offer stock options to our employees, including our named executive officers, as the long-term incentive component of our compensation program. Our stock options generally allow employees to purchase shares of our common stock at a price equal to the fair market value of our common stock on the date of grant. With respect to grants made in connection with the commencement of employment, our stock options typically vest as to 25% of the underlying shares on the first anniversary of the vesting commencement date and in equal monthly installments over the following three years, subject to the holder's continued service with us. From time to time, our Board of Directors may also construct alternate vesting schedules as it determines are appropriate to motivate particular employees. Historically, our stock options have been intended to qualify as "incentive stock options" to the extent permitted under the Internal Revenue Code.

The following table sets forth the stock options granted to our named executive officers in 2020.

| Named Executive Officer | 2020 Stock Options Granted |
|-------------------------|-------------------------------|
| Maria Palasis, Ph.D. | 326,303 |
| R. Don Elsey | 20,635 |
| Robert Richard, Ph.D. | 35,000 |

The stock option awards to Dr. Palasis and Mr. Elsey were made in connection with the initial public offering effective April 2020 and vest in 48 equal monthly installments following the effective date of grant, subject to the continued service of the applicable named executive officer. The stock option award to Dr. Richard was made in June 2020 in connection with his commencement of employment with us and is subject to our standard vesting schedule for grants made in connection with the commencement of employment described above.

Other Elements of Compensation

Retirement Plan

We maintain a 401(k) retirement savings plan for our employees, including our named executive officers, who satisfy certain eligibility requirements. Our named executive officers are eligible to participate in the 401(k) plan on the same terms as other full-time employees. We believe that providing a vehicle for tax-deferred retirement savings though our 401(k) plan adds to the overall desirability of our executive compensation package and further incentivizes our employees, including our named executive officers, in accordance with our compensation policies. For 2020, we made matching contributions of 50% of the first 6% of eligible compensation contributed under our 401(k) plan.

Employee Benefits and Perquisites

All of our full-time employees, including our named executive officers, are eligible to participate in our employee benefit plans and programs, including medical, dental, and vision benefits, health spending accounts, and short- and long-term disability, accidental death and dismemberment, and life insurance, to the same extent as our other full-time employees, subject to the terms and eligibility requirements of those plans.

Outstanding Equity Awards at 2020 Fiscal Year-End

The following table summarizes the number of shares of common stock underlying outstanding equity incentive plan awards for each named executive officer as of December 31, 2020.

| Name | Vesting Commencement Date | Number of Securities Underlying Unexercised Options (#) Exercisable | Number of Securities Underlying Unexercised Options (#) Unexercisable | Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Unearned Options (#) | Option Exercise Price (\$) | Option Expiration Date |
|-----------------------|---------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------|
| Maria Palasis, Ph.D. | 11/16/2011 | 22,793 | — | — | 8.63 | 11/16/2021 |
| | 2/26/2013 | 24,358 | — | — | 21.73 | 6/26/2023 |
| | 1/1/2015 | 94,287 | — | — | 22.76 | 9/23/2025 |
| | 6/13/2017 | 31,429 | — | 31,429(2) | 1.73 | 6/13/2027 |
| | 3/6/2019 | 74,573 | 95,882(1) | | 2.76 | 3/6/2029 |
| | 4/30/2020 | 54,383 | 271,920(1) | _ | 16.00 | 4/29/2030 |
| R. Don Elsey | 7/29/2019 | 26,485 | 48,298(3) | _ | 4.49 | 9/24/2029 |
| | 4/30/2020 | 3,439 | 17,196(1) | _ | 16.00 | 4/29/2030 |
| Robert Richard, Ph.D. | 6/24/2020 | | 35,000(3) | _ | 12.33 | 6/24/2030 |

(1) Options vest and become exercisable in equal monthly installments over four years following the vesting commencement date, subject to the named executive officer's continued service with us on each applicable vesting date.

- (2) Options vest and become exercisable at the end of any given three-month period occurring prior to six years from the vesting commencement date in which we recognize revenue from the commercial sale of an FDA-approved product each month and in amounts, with respect to the second and third months of such period that increase from the revenue recognized from such product sales in the immediately preceding month, subject to Dr. Palasis' continued employment with us on each applicable vesting date.
- (3) Options vest and become exercisable as to 25% of the underlying shares on the first anniversary of the vesting commencement date and in 36 equal monthly installments over the following three years, subject to the named executive officer's continued service with us on each applicable vesting date.

Executive Employment Agreements

We entered into new employment agreements with Dr. Palasis and Mr. Elsey in connection with our initial public offering that superseded their prior employment arrangements with us, and we entered into an employment agreement with Dr. Richard in connection with his commencement of employment with us in June 2020. The employment agreements provide for the annual base salaries and annual target bonus opportunities described above under the headings "—Annual Base Salaries" and "—Target Bonuses". Through December 31, 2020, and subject to renewal by our Board of Directors thereafter, Mr. Elsey is also entitled to (i) reimbursement of reasonable travel expenses from his home to our offices in Massachusetts, (ii) use of a corporate apartment while working in Massachusetts and (iii) reimbursement for income and employment taxes incurred by Mr. Elsey as a result of these commuting payments and benefits. The total amount for (i) through (iii) may not exceed \$75,000.



Under the employment agreements, if we terminate the employment of Dr. Palasis, Mr. Elsey or Dr. Richard without "cause" or the executive resigns for "good reason" (each as defined below), subject to the executive's timely execution of a release of claims and continued compliance with a separate restrictive covenant agreement (described below), the executive is entitled to receive (i) base salary continuation for a period of 12 months for Dr. Palasis, 9 months for Mr. Elsey and 6 months for Dr. Richard; (ii) payment of any annual bonus for the prior year earned but unpaid as of the date of termination and (iii) direct payment of or reimbursement for continued medical, dental or vision coverage pursuant to COBRA for up to 12 months for Dr. Palasis, 9 months for Mr. Elsey and 6 months for Dr. Richard, less the amount each named executive officer would have had to pay to receive such coverage as an active employee based on the cost sharing levels in effect on the named executive officer's termination date.

If we terminate Dr. Palasis, Mr. Elsey or Dr. Richard without "cause" or the executive resigns for "good reason," in either case, on or within three months prior to or 12 months following a change in control, then, in lieu of the severance benefits described above, subject to the executive's timely execution of a release of claims, the executive is entitled to receive (i) an amount equal in cash equal to 1.5 times for Dr. Palasis, one times for Mr. Elsey and 0.75 times for Dr. Richard the sum of the named executive officer's annual base salary plus target annual bonus for the year of termination, (ii) payment of any annual bonus for the prior year earned but unpaid as of the date of termination, (iii) direct payment of or reimbursement for continued medical, dental or vision coverage pursuant to COBRA for up to 18 months for Dr. Palasis, 12 months for Mr. Elsey and 9 months for Dr. Richard, less the amount each named executive officer's termination date, and (iv) accelerated vesting of all unvested equity or equity-based awards held by the named executive officer that vest based on the attainment of performance-vesting conditions being governed by the terms of the applicable award agreement.

Each of our named executive officers has agreed to refrain from competing with us while employed and following his or her termination of employment for any reason for a period of one year and to refrain from soliciting our employees or customers while employed and following his or her termination of employment for any reason for a period of two years in the case of Dr. Palasis and Mr. Elsey and one year in the case of Dr. Richard.

For purposes of the employment agreements, "cause" generally means the named executive officer's refusal to substantially perform the duties associated with his or her position with our company or to carry out the reasonable and lawful instructions of our Board of Directors concerning duties or actions consistent with his or her position, his or her breach of a material provision of the employment agreement which remains uncured (to the extent capable of cure) for a period of 30 days following written notice from our company, his or her conviction, plea of no contest or nolo contendere or imposition of unadjudicated probation for any felony or crime involving moral turpitude, his or her unlawful use (including being under the influence) or possession of illegal drugs on our premises or while performing his or her duties and responsibilities under the employment agreement, or his or her commission of any act of fraud, embezzlement, misappropriation, willful misconduct, or breach of fiduciary duty against us.

For purposes of the employment agreements, "good reason" generally means, subject to certain cure rights, the named executive officer's termination of employment due to a reduction in salary or target bonus (other than a reduction of 20% or less of the named executive officer's base salary implemented as part of an across the board, proportionate reduction of base salaries for other members of our management team), a material decrease in authority or areas of responsibility, our company's breach of any one or more of the material provisions of the employment agreement, or a relocation by our company of the named executive officer's primary office to a location more than 50 miles from the named executive officer's primary office on the date of the agreement.

Director Compensation

2020 Director Compensation Table

| Name | Fees Earned or Paid in Cash (\$) | Stock Awards (\$)(1) | Option Awards (\$)(1) | Total (\$) |
|----------------------------------------|-------------------------------------------|----------------------------|-----------------------------|---------------|
| Robert Langer Sc.D.(2) | 19,355 | _ | _ | 19,355 |
| George Whitesides Ph.D. ⁽²⁾ | 19,355 | 314,576 | — | 333,931 |
| Michael Altman | 26,667 | — | 156,163 | 182,830 |
| C. Ann Merrifield | 70,333 | — | 56,264 | 126,597 |
| Edward Anderson | 31,667 | — | 156,163 | 187,830 |
| W. Bradford Smith | 52,667 | — | 76,110 | 128,777 |
| Konstantin Poukalov | 26,667 | — | 156,163 | 182,830 |
| Nancy Snyderman, M.D. ⁽³⁾ | 7,519 | — | 118,264 | 125,783 |

(1) Amounts reflect the full grant-date fair value of stock awards and stock options granted during 2020 computed in accordance with ASC Topic 718, rather than the amounts paid to or realized by the named individual. We provide information regarding the assumptions used to calculate the value of all stock awards and option awards made to our directors in Note 8 to the consolidated financial statements included in in our Annual Report on Form 10-K filed on March 9, 2021.

- (2) Dr. Langer and Dr. Whitesides resigned from our Board of Directors on October 26, 2020.
- (3) Dr. Snyderman was appointed to our Board of Directors on October 27, 2020.

The table below shows the aggregate numbers of option awards (exercisable and unexercisable) held as of December 31, 2020 by each non-employee director. None of our non-employee directors held unvested stock awards as of December 31, 2020.

| Name | Options Outstanding at Fiscal Year End | |
|-------------------------|-------------------------------------------------|--|
| Robert Langer Sc.D. | 121,584 | |
| George Whitesides Ph.D. | 107,085 | |
| Michael Altman | 14,500 | |
| C. Ann Merrifield | 13,288 | |
| Edward Anderson | 14,500 | |
| W. Bradford Smith | 13,289 | |
| Konstantin Poukalov | 14,500 | |
| Nancy Snyderman, M.D. | 14,500 | |

Non-Employee Director Compensation Program

In connection with our initial public offering, we adopted, and our stockholders approved, a compensation program for our non-employee directors under which each non-employee director receives the following amounts for their services on our Board of Directors:

- Upon the director's initial election or appointment to our Board of Directors, an option to purchase 14,500 shares of our common stock;
- If the director has served on our Board of Directors for at least six months as of the date of an annual meeting of stockholders and will continue to serve as a director immediately following such meeting, an option to purchase 7,250 shares of our common stock on the date of the annual meeting;



- An annual director fee of \$40,000;
- If the director serves as lead independent director or chair or on a committee of our Board of Directors, an additional annual fee as follows:
 - Chair of the board or lead independent director: \$25,000;
 - Chair of the audit committee: \$20,000;
 - Audit committee member other than the chair, \$7,500;
 - Chair of the compensation committee, \$15,000;
 - Compensation committee member other than the chair, \$5,000;
 - Chair of the nominating and corporate governance committee, \$8,000; and
 - Nominating and corporate governance committee member other than the chair, \$4,000.

Director fees under the program are payable in arrears in four equal quarterly installments not later than the fifteenth day following the final day of each calendar quarter, provided that the amount of each payment is prorated for any portion of a quarter that a director is not serving on our Board of Directors and no fee was payable in respect of any period prior to the effective date of the registration statement relating to our initial public offering.

Stock options granted to our non-employee directors under the program have an exercise price equal to the fair market value of our common stock on the date of grant and expire not later than ten years after the date of grant. The stock options granted upon a director's initial election or appointment vest in 36 substantially equal monthly installments following the date of grant. The stock options granted annually to directors vest in a single installment on the earlier of the day before the next annual meeting or the first anniversary of the date of grant. In addition, all unvested stock options vest in full upon the occurrence of a change in control.

IPO Grants to Non-Employee Directors under the 2020 Plan

In connection with our initial public offering, our Board of Directors approved the grant to each of Michael Altman, Edward Anderson, Robert Langer, Sc.D., Konstantin Poukalov and George Whitesides, Ph.D. of an option to purchase 14,500 shares of our common stock at an exercise price per share equal to the initial public offering price per share of our common stock. Each option vests in 36 substantially equal monthly installments following the date of grant, subject to such director's continued service through each applicable vesting date and accelerated vesting upon a change in control.

Whitesides Stock Award

In connection with our initial public offering, our Board of Directors granted to Dr. Whitesides an award of 19,661 vested shares of our common stock, effective as of May 1, 2020, the date of effectiveness of the registration statement on Form S-8 registering the issuance of the shares subject to the award.



SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth information with respect to the beneficial ownership of our common stock by (i) each person or group of affiliated persons known by us to beneficially own more than 5% of our common stock and (ii) each of our named executive officers, each of our directors and all of our current executive officers and directors as a group as of April 9, 2021, unless otherwise indicated.

The number of shares beneficially owned by each stockholder is determined under rules issued by the SEC. Under these rules, beneficial ownership includes any shares as to which the individual or entity has sole or shared voting power or investment power. Applicable percentage ownership is based on 12,962,768 shares of common stock outstanding as of April 9, 2021. In computing the number of shares beneficially owned by an individual or entity and the percentage ownership of that person, shares of common stock subject to options held by such person that are currently exercisable or will become exercisable within 60 days of April 9, 2021 are considered outstanding, although these shares are not considered outstanding for purposes of computing the percentage ownership of any other person. Unless noted otherwise, the address of all listed stockholders is 480 Arsenal Way, Watertown, MA 02472. Each of the stockholders listed has sole voting and investment power with respect to the shares beneficially owned by the stockholder unless noted otherwise, subject to community property laws where applicable.

| | Shares of Common Stock Beneficially | | |
|--------------------------------------------------------------------------------------|----------------------------------------|------------|--|
| Name of Beneficial Owner | Owned | Percentage | |
| 5% or Greater Stockholders | | | |
| Entities Affiliated with Perceptive Advisors, LLC(1) | 3,222,561 | 24.9% | |
| Entities Affiliated with North Bridge Venture Partners ⁽²⁾ | 1,713,333 | 13.2% | |
| Entities Affiliated with Polaris Venture Partners ⁽³⁾ | 1,423,772 | 11.0% | |
| RA Capital Healthcare Fund, L.P.(4) | 815,849 | 6.3% | |
| Ikarian Capital, LLC ⁽⁵⁾ | 815,364 | 6.3% | |
| Intersouth Partners VII, L.P.(6) | 738,203 | 5.7% | |
| Arrowmark Colorado Holdings, LLC ⁽⁷⁾ | 648,321 | 5.0% | |
| Named Executive Officers and Directors | | | |
| Maria Palasis, Ph.D.(8) | 367,120 | 2.8% | |
| R. Don Elsey ⁽⁹⁾ | 43,613 | * | |
| Robert Richard, Ph.D.(10) | 1,500 | * | |
| Edward Anderson ⁽²⁾ | 1,718,569 | 13.3% | |
| Michael Altman ⁽¹⁾ | 5,236 | * | |
| C. Ann Merrifield(11) | 7,478 | * | |
| Nancy Snyderman, M.D., FACS ⁽¹²⁾ | 3,844 | * | |
| W. Bradford Smith(13) | 6,644 | * | |
| Konstantin Poukalov(1) | 5,236 | * | |
| All current executive officers and directors as a group (11 persons) ⁽¹⁴⁾ | 2,202,939 | 16.4% | |

* Less than 1%.

(1) Pursuant to a Schedule 13D filed with the SEC on June 1, 2020, Perceptive Life Sciences Master Fund, Ltd. ("Perceptive Life") reported shared voting power and shared dispositive power over 1,934,115 shares of common stock; Perceptive LS (A), LLC ("Perceptive LS") reported shared dispositive power over 3,223,561 shares of common stock; and Perceptive Advisors LLC reported shared voting power and shared dispositive power over 3,223,561 shares of common stock; and Perceptive Advisors LLC reported shared voting power and shared dispositive power over 3,223,561 shares of common stock; and Perceptive Advisors LLC reported shared voting power and shared dispositive power over 3,223,561 shares of common stock. Perceptive Advisors LLC serves as the investment advisor to Perceptive Life. Perceptive LS GP, LLC is the manager of Perceptive LS. Joseph Edelman is the managing member of Perceptive Advisors LLC and the sole member of Perceptive LS GP, LLC. Michael Altman and Konstantin Poukalov, two of our directors, are Managing Directors at Perceptive Advisors LLC. Messrs. Altman and Poukalov each have sole voting power and sole dispositive power over 5,236 shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021. The address of the aforementioned individuals and entities is c/o Perceptive Advisors, LLC, 51 Astor Place, 10th Floor, New York, New York 10003.

- (2) Pursuant to a Schedule 13D filed with the SEC on May 15, 2020, North Bridge Venture Partners V-A, L.P. ("NBVP V-A") reported shared voting power and shared dispositive power over 778,592 shares of common stock; North Bridge Venture Partners V-B, L.P. ("NBVP V-B") reported shared voting power and shared dispositive power over 381,618 shares of common stock; and North Bridge Venture Partners VI, L.P. ("NBVP VI") reported shared voting power and shared dispositive power over 553,123 shares of common stock. North Bridge Venture Management V, L.P. ("NBVM V"), is the sole General Partner of NBVP V-A and NBVP V-B and may be deemed to have voting and dispositive power over the shares held by those entities. NBVM GP, LLC, the General Partner of NBVM V, may be deemed to have voting and dispositive power over the shares held of record by NBVP VA and NBVP V-B. Shared voting and dispositive power of such shares are vested in Edward T. Anderson and Richard A. D'Amore. North Bridge Venture Management VI, L.P. ("NBVM VI"), is the sole General Partner of NBVM VI, and may be deemed to have voting and dispositive power over the shares held of record by NBVP VA and NBVP V-B. Shared voting and dispositive power over the shares held of record by NBVP VI, and may be deemed to have voting and dispositive power over the shares held of record by NBVM VI, and may be deemed to have voting and dispositive power over the shares held of power of such shares are vested in Edward T. Anderson and Richard A. D'Amore. North Bridge Venture Management VI, L.P. ("NBVM VI"), is the sole General Partner of NBVP VI. NBVM GP, LLC, the General Partner of NBVM VI, and may be deemed to have voting and dispositive power over the shares held of record by NBVP VI. Shared voting and dispositive power of such shares are vested in Edward T. Anderson and Richard A. D'Amore. Mr. Anderson, a member of our Board of Directors and a manager of NBVM GP, LLC, disclaims beneficial ownership over such shares, except to the extent of his pecuniary interest therein.
- Pursuant to a Schedule 13G filed with the SEC on February 12, 2021, Polaris Venture Partners IV, L.P. ("PVP IV") reported shared voting (3) power and shared dispositive power over 316,980 shares of common stock; Polaris Venture Partners Entrepreneurs' Fund IV, L.P. ("PVPEF IV" and, together with PVP IV, the "Polaris IV Funds") reported shared voting power and shared dispositive power over 5,940 shares of common stock; Polaris Venture Partners V, L.P. ("PVP V") reported shared voting power and shared dispositive power over 1,062,259 shares of common stock; Polaris Venture Partners Entrepreneurs' Fund V, L.P. ("PVPEF V") reported shared voting power and shared dispositive power over 20,701 shares of common stock; Polaris Venture Partners Founders' Fund V, L.P. ("PVPFF V") reported shared voting power and shared dispositive power over 7,274 shares of common stock; Polaris Venture Partners Special Founders' Fund V, L.P. ("PVPSFF V," and together with PVP V, PVPEF V and PVPFF V, the "Polaris V Funds" and the Polaris V Funds, together with the Polaris IV Funds, the "Polaris Funds") reported shared voting power and shared dispositive power over 10,618 shares of common stock; Polaris Venture Management Co., IV, L.L.C. ("PVM IV") reported shared voting power and shared dispositive power over 1,100,852 shares of common stock; and Polaris Venture Management Co. IV, L.L.C.. reported shared voting power and shared dispositive power over 322,920 shares of common stock. PVM IV is the sole general partner of each of the Polaris IV Funds and may be deemed to have sole voting and dispositive power with respect to the shares held by each of the Polaris IV Funds. Polaris Venture Management Co. V, L.L.C. ("PVM V") is the sole general partner of each of the Polaris V Funds and may be deemed to have sole voting and dispositive power with respect to the shares held by each of the Polaris V Funds. Jonathan A. Flint and Terrance G. McGuire are the managing members of each of PVM V and PVM IV. Each of Messrs. Flint and McGuire, as managing members of each of PVM V and PVM IV, may be deemed to have shared voting and dispositive power with respect to the shares held by each of the Polaris Funds. Each of PVM IV, PVM V and Messrs. Flint and McGuire expressly disclaim beneficial ownership of the shares held by the each of the Polaris Funds, except to the extent of their respective pecuniary interests therein, if any. The mailing address of the aforementioned individuals and entities is One Marina Park Drive, 10th Floor, Boston, MA 02210.
- (4) Pursuant to a Schedule 13G filed with the SEC on February 16, 2021, each of RA Capital Management, L.P., R.A. Capital Healthcare Fund, L.P. ("RA Capital"), Peter Kolchinsky and Rajeev Shah reported shared voting power and shared dispositive power over 815,849 shares of common stock. RA Capital Management, L.P., is the investment advisor ("Adviser") of RA Capital and RA Capital Management GP, LLC ("Adviser GP") is the general partner of the Adviser. Dr. Kolchinsky and Rajeev Shah are the controlling persons of the Adviser GP. The Adviser, Dr. Kolchinsky, and Mr. Shah may be deemed to beneficially own the shares held by RA Capital. The address of RA Capital is c/o RA Capital Management, L.P., 200 Berkeley Street, 18th Floor, Boston, Massachusetts 02116.

- (5) Pursuant to a Schedule 13G/A filed with the SEC on February 16, 2021, Ikarian Capital, LLC ("Ikarian Capital") reported shared voting power and shared dispositive power over 815,364 shares of common stock; each of Ikarian Healthcare Master Fund, L.P. (the "Fund") and Ikarian Healthcare Fund GP, L.P. (the "Ikarian GP") reported shared voting power and shared dispositive power over 654,626 shares of common stock; and each of Chart Westcott and Neil Shahrestani reported shared voting power and shared dispositive power over 815,364 shares of common stock. Ikarian Capital is the investment manager of, and may be deemed to indirectly beneficially own securities owned by, the Fund. Ikarian GP is the general partner of, and may be deemed to indirectly beneficially own securities owned by, the Fund. Ikarian Capital is a sub-advisor for certain separate managed accounts (collectively, the "Managed Accounts") and may be deemed to indirectly beneficially own securities owned by the Managed Accounts. Ikarian Capital is ultimately owned and controlled by Chart Westcott Living Trust, of which Mr. Westcott serves as the sole trustee (the "Trust"), and indirectly beneficially own securities beneficially owned by Ikarian Capital. The Fund disclaims beneficial ownership of the shares held by the Managed Accounts. The address of the principal business office of each of the aforementioned individuals and entities is c/o Ikarian Capital, LLC, 100 Crescent Court, Suite 1620, Dallas, Texas 75201.
- (6) Pursuant to a Schedule 13G filed with the SEC on February 12, 2021, each of Intersouth Partners VII, L.P. ("ISP VII"), Intersouth Associates VII, LLC ("ISA VII, LLC"), Dennis Dougherty and Mitch Mumma reported shared voting power and shared dispositive power over 738,203 shares of common stock. ISA VII directly beneficially owns 738,203 shares of common stock. ISA VII, LLC, as the general partner of ISP VII, may be deemed to beneficially own the securities owned by ISP VII. Messrs. Dougherty and Mumma, as Member Managers of ISA VII, LLC, may be deemed to indirectly beneficially own the securities owned by ISP VII. Each of (i) ISP VII, (ii) ISP VII, LLC and (iii) Messrs. Dougherty and Mumma, may be deemed to share the power to vote or direct the voting of, and to dispose or direct the disposition of, the securities other than those he owns by virtue of his indirect pro rata interest as a member of ISA VII, LLC. The mailing address of the aforementioned individuals and entities is 4711 Hope Valley Road, Suite 4F-632, Durham NC 27707.
- (7) Pursuant to a Schedule 13G filed with the SEC on February 16, 2021, ArrowMark Colorado Holdings, LLC reported sole voting power over 648,321 shares of common stock. The address of ArrowMark Colorado Holdings, LLC is 100 Fillmore Street, Suite 325, Denver, Colorado, 80206.
- (8) Consists of options to purchase 367,120 shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021.
- (9) Consists of options to purchase 43,613 shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021.
- (10) Consists of options to purchase 1,500 shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021.
- (11) Consists of options to purchase 7,478 shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021.
- (12) Consists of 1,025 shares of common stock and 2,819 options to purchase shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021.
- (13) Consists of options to purchase 6,644 shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021.
- (14) Consists of 1,714,358 shares of common stock and 488,581 options to purchase shares of common stock that are or will be immediately exercisable within 60 days of April 9, 2021.



CERTAIN RELATIONSHIPS AND RELATED PERSON TRANSACTIONS

Our Board of Directors recognizes the fact that transactions with related persons present a heightened risk of conflicts of interests (or the perception thereof) and has adopted a written related person transactions policy to comply with Section 404 of the Exchange Act. Under the policy, our finance team is primarily responsible for developing and implementing processes and procedures to obtain information regarding related persons with respect to potential related person transactions and then determining, based on the facts and circumstances, whether such potential related person transactions do, in fact, constitute related person transactions requiring compliance with the policy. In addition, any potential related person transaction that is proposed to be entered into by the Company must be reported to the Company's Chief Financial Officer, by both the related person and the person at the Company responsible for such potential related person transaction.

If our finance team determines that a transaction or relationship is a related person transaction requiring compliance with the policy, our Chief Financial Officer is required to present to the Audit Committee all relevant facts and circumstances relating to the related person transaction. Our Audit Committee must review the relevant facts and circumstances of each related person transaction, including if the transaction is on terms comparable to those that could be obtained in arm's length dealings with an unrelated third party and the extent of the related person's interest in the transaction, take into account the conflicts of interest and corporate opportunity provisions of our Code of Business Conduct and Ethics, and either approve or disapprove the related person transaction may be preliminarily entered into by management upon prior approval of the transaction by the chair of the Audit Committee subject to ratification of the transaction by the Audit Committee at the Audit Committee's next regularly scheduled meeting; provided, that if ratification is not forthcoming, management will make all reasonable efforts to cancel or annul the transaction. If a transaction at the Audit Committee's next regularly scheduled meeting; provided, that if ratification is not forthcoming, management will make all reasonable efforts to cancel or annul the transaction. If a transaction at the Audit Committee's next regularly scheduled meeting; provided, that if ratification is not forthcoming, management will make all reasonable efforts to cancel or annul the transaction. If a transaction at the Audit Committee's next regularly scheduled meeting; provided, that if ratification is not forthcoming, management will make all reasonable efforts to cancel or annul the transaction.

Our management will update the Audit Committee as to any material changes to any approved or ratified related person transaction and will provide a status report at least annually of all then current related person transactions. No director may participate in approval of a related person transaction for which he or she is a related person.

The following are certain transactions, arrangements and relationships with our directors, executive officers and stockholders owning 5% or more of our outstanding common stock, or any member of the immediate family of any of the foregoing persons, since January 1, 2019.

Series C Preferred Stock Financing. At various closings between January 10, 2020 and January 31, 2020, we issued and sold to investors an aggregate of 78,306,611 shares of our Series C preferred stock at a price per share of \$0.38811, for aggregate consideration of approximately \$30.4 million. We also issued to such investors warrants to purchase up to an aggregate of 681,256 shares of common stock, at an exercise price per share equal to the fair market value of our common stock following January 10, 2020 (as determined by our Board of Directors, in good faith, based on the most recent independent third party valuation of our company available following January 10, 2020 performed pursuant to Section 409A of the Internal Revenue Code, and taking into account any changes to our business between the date of such third party valuation and January 10, 2020). In accordance with such terms, on February 6, 2020, our Board of Directors determined such fair market value of our common stock to be \$8.63 per share. Certain holders of 5% or more of our common stock at the time of the transactions, on an as-converted basis, including entities affiliated with Polaris Venture Partners, North Bridge Venture Partners, Intersouth Partners VII, L.P., Perceptive Advisors, LLC, RA Capital Healthcare Fund, L.P., ArrowMark Partners and Soleus Private Equity Fund I, L.P., participated in the Series C preferred stock financing, including the issuance of the warrants to purchase common stock.

The following table sets forth the aggregate number of shares of our capital stock acquired by beneficial owners of more than 5% of our common stock at the time of the Series C preferred stock financing transaction described above. Each share of our Series C preferred stock identified in the following table converted into 0.0289998 shares of common stock immediately prior to the closing of our initial public offering.

| Participants 5% or Greater Stockholders(1) | Series C Preferred Stock | Warrants to Purchase Common Stock |
|------------------------------------------------------------------|-----------------------------|-----------------------------------------|
| Entities affiliated with Polaris Venture Partners(2) | 2,061,271 | 17,932 |
| Intersouth Partners VII, L.P. | 1,030,635 | 8,966 |
| Entities affiliated with North Bridge Venture Partners(3) | 5,153,178 | 44,831 |
| Entities affiliated with Perceptive Advisors, LLC ⁽⁴⁾ | 55,267,836 | 480,825 |
| RA Capital Healthcare Fund, L.P. | 1,288,294 | 11,208 |
| Entities Affiliated with ArrowMark Partners(5) | 3,864,883 | 33,624 |
| Soleus Private Equity Fund I, L.P. | 3,607,224 | 31,382 |

- (1) Additional details regarding certain of these stockholders and their equity holdings are provided in this proxy statement under the caption "Security Ownership of Certain Beneficial Owners and Management."
- (2) Represents securities acquired by (i) Polaris Venture Partners Entrepreneurs' Fund V, L.P., (ii) Polaris Venture Partners V, L.P., (iii) Polaris Venture Partners Founders' Fund V, L.P. and (iv) Polaris Venture Partners Special Founders' Fund V, L.P.
- (3) Represents securities acquired by (i) North Bridge Venture Partners V-A, L.P., (ii) North Bridge Venture Partners V-B, L.P. and (iii) North Bridge Venture Partners VI, L.P.
- (4) Represents securities acquired by (i) Perceptive Life Sciences Master Fund, Ltd. and (ii) Perceptive LS (A), LLC.
- (5) Represents securities acquired by (i) ArrowMark Fundamental Opportunity Fund, L.P. and (ii) Meridian Small Cap Growth Fund.

Some of our directors are associated with our principal stockholders as indicated in the table below:

| Director | Principal Stockholder |
|---------------------------|--------------------------------------------------------|
| Michael Altman | Entities affiliated with Perceptive Advisors, LLC |
| Edward Anderson | Entities affiliated with North Bridge Venture Partners |
| Robert S. Langer Sc.D.(1) | Entities affiliated with Polaris Venture Partners |
| Konstantin Poukalov | Entities affiliated with Perceptive Advisors, LLC |

(1) Robert S. Langer Sc.D. resigned as a director on October 26, 2020.

Agreements with Arsenal

In 2011, we entered into a Collaboration Agreement, a Technology License Agreement, a Trademark Coexistence Agreement and a Transition Services Agreement with Arsenal Medical, Inc., or Arsenal, a company in which certain of our principal stockholders are stockholders. In October 2018, we entered an Acknowledgment and Release Agreement with Arsenal with respect to the expiration of the Collaboration Agreement and certain other intellectual property matters. In November 2019, we entered into an amendment to the Acknowledgement and Release Agreement, which clarifies our and Arsenal's rights to each of our and Arsenal's respective patents and patent applications, including patents and patent applications existing as of the effective date of the Collaboration Agreement, the Technology License Agreement, the Trademark Coexistence Agreement and the Transition Services Agreement. The amendment to the Acknowledgment and Release Agreement and patent applications. The Technology License Agreement is a non-exclusive in-license agreement covering certain intellectual property regarding in situ forming foam and nanofiber, which is unrelated to our current and future expected product candidates. The Technology License Agreement provides for no future payments by us and remains in effect. In addition, the Trademark Coexistence Agreement relates to certain trademarks around our previous corporate name, which we no longer use. The Transition Services Agreement expired in June 2019.



Consulting Agreement with George Whitesides, Ph.D.

In October 2005, we entered into a consulting agreement with George Whitesides, Ph.D., who was one of our directors between October 2005 and October 2020, pursuant to which Dr. Whitesides agreed to provide us certain consulting and advisory services. The agreement was subsequently amended in March 2006, February 2012, January 2015 and January 2017. Pursuant to the terms of the agreement, as amended, the agreement expired on January 1, 2019. In lieu of all compensation payable by us under the agreement, upon consummation of our IPO on May 5, 2020, we granted to Dr. Whitesides an award of 19,661 fully vested shares of common stock under our 2020 Plan.

Investor Rights Agreement

On January 10, 2020, we entered into an Eighth Amended and Restated Investor Rights Agreement with the holders of our then-outstanding preferred stock, including Perceptive Advisers, LLC, North Bridge Venture Partners, and Polaris Venture Partners, which are 5% or greater holders of our common stock and entities with which certain of our directors are related. The agreement provides for certain rights relating to the registration of such holders' common stock and a right of first refusal to purchase future securities sold by us.

Indemnification Agreements

We have entered into indemnification agreements with each of our directors and executive officers. These agreements, among other things, require us to indemnify each director (and in certain cases their related venture capital funds) and executive officer to the fullest extent permitted by Delaware law, including indemnification of expenses such as attorneys' fees, judgments, fines and settlement amounts incurred by the director or executive officer in any action or proceeding by or in right of us, arising out of the person's services as a director or executive officer.

STOCKHOLDERS' PROPOSALS

Stockholders who intend to have a proposal considered for inclusion in our proxy materials for presentation at our 2022 Annual Meeting of Stockholders pursuant to Rule 14a-8 under the Exchange Act must submit the proposal to our Secretary at our offices at 480 Arsenal Way, Watertown, Massachusetts 02472 in writing not later than December 15, 2021.

Stockholders intending to present a proposal at the 2022 Annual Meeting of Stockholders, but not to include the proposal in our proxy statement, or to nominate a person for election as a director, must comply with the requirements set forth in our Amended and Restated Bylaws. Our Amended and Restated Bylaws require, among other things, that our Secretary receive written notice from the stockholder of record of their intent to present such proposal or nomination not less than 90 days nor more than 120 days prior to the first anniversary of the preceding year's annual meeting. Therefore, we must receive notice of such a proposal or nomination for the 2022 Annual Meeting of Stockholders no earlier than January 26, 2022 and no later than February 25, 2022. The notice must contain the information required by the Amended and Restated Bylaws, a copy of which is available upon request to our Secretary must receive such written notice not earlier than the close of business on the 120th day prior to the 2022 Annual Meeting and the close of business on 10th day following the day on which public disclosure of the date of such meeting is first made by us.

We reserve the right to reject, rule out of order, or take other appropriate action with respect to any proposal that does not comply with these or other applicable requirements.

OTHER MATTERS

Our Board of Directors is not aware of any matter to be presented for action at the Annual Meeting other than the matters referred to above and does not intend to bring any other matters before the Annual Meeting. However, if other matters should come before the Annual Meeting, it is intended that holders of the proxies named on the Company's proxy card will vote thereon in their discretion.

SOLICITATION OF PROXIES

The accompanying proxy is solicited by and on behalf of our Board of Directors, whose Notice of Annual Meeting is attached to this proxy statement, and the entire cost of our solicitation will be borne by us. In addition to the use of mail, proxies may be solicited by personal interview, telephone, e-mail and facsimile by our directors, officers and other employees who will not be specially compensated for these services. We will also request that brokers, nominees, custodians and other fiduciaries forward soliciting materials to the beneficial owners of shares held by the brokers, nominees, custodians and other fiduciaries. We will reimburse these persons for their reasonable expenses in connection with these activities.

Certain information contained in this proxy statement relating to the occupations and security holdings of our directors and officers is based upon information received from the individual directors and officers.

LYRA'S ANNUAL REPORT ON FORM 10-K

A copy of Lyra's Annual Report on Form 10-K for the fiscal year ended December 31, 2020, including financial statements and schedules thereto but not including exhibits, as filed with the SEC, will be sent to any stockholder of record on April 9, 2021 without charge upon written request addressed to:

Lyra Therapeutics, Inc. Attention: Secretary 480 Arsenal Way Watertown, Massachusetts 02472

A reasonable fee will be charged for copies of exhibits. You also may access this proxy statement and our Annual Report on Form 10-K at *www.proxyvote.com*. You also may access our Annual Report on Form 10-K for the fiscal year ended December 31, 2020 at *www.lyratherapeutics.com*.

WHETHER OR NOT YOU PLAN TO ATTEND THE ANNUAL MEETING ONLINE, WE URGE YOU TO VOTE YOUR SHARES VIA THE TOLL-FREE TELEPHONE NUMBER OR OVER THE INTERNET, AS DESCRIBED IN THIS PROXY STATEMENT. IF YOU RECEIVED A COPY OF THE PROXY CARD BY MAIL, YOU MAY SIGN, DATE AND MAIL THE PROXY CARD IN THE ENCLOSED RETURN ENVELOPE. PROMPTLY VOTING YOUR SHARES WILL ENSURE THE PRESENCE OF A QUORUM AT THE ANNUAL MEETING AND WILL SAVE US THE EXPENSE OF FURTHER SOLICITATION.

By Order of the Board of Directors

/s/ R. Don Elsey R. Don Elsey, Chief Financial Officer, Treasurer and Secretary

Watertown, Massachusetts April 14, 2021



CITA THERAPOLITICS, INC. 489 ARSENAL WAY MATERIOVAL MASSACHUSETTE (2017)

VOTE BY INTERNET Before The Meeting - Go to www.proxyvote.com

Use the Internet to transmit your voting instructions and for electronic delivery of information up until 11:59 PM EDT on May 25, 2021. Have your proxy card in hard when you access the week site and follow the instructions to obtain your records and to create an electronic voting instruction form.

During The Meeting - Go to www.virtualshareholdermeeting.com/LYRA2021

You may attend the meeting via the internet and vote during the meeting. We recommend, however, that you vote before the meeting even if you plan to participate in the meeting, since you can change your vote during the meeting by voting when the polls are open. Have the information that is printed in the box marked by the arrow available and follow the instructions.

VOTE BY PHONE - 1-800-690-6903

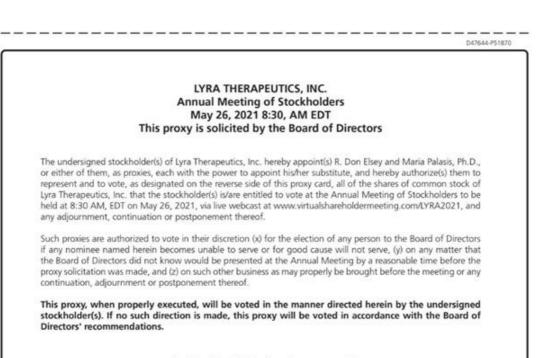
Use any touch-tone telephone to transmit your voting instructions up until 11:59 PM EDT on May 35, 2021. Have your proxy card in hand when you call and then follow the instructions.

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

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

| | | | | D47643-P51870 | KEEP THIS PO | RTION | FOR YO | UR RECORD |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|-----------|-----------|
| THIS PRO | XY CA | RD IS VA | LID ONL | Y WHEN SIGNED AND DATED. | ETACH AND I | RETUR | N THIS PO | RTION ON |
| YRA THERAPEUTICS, INC. | For All | Withhold | For All Except | To withhold authority to vote for any individual nominee(s), mark "For All Except" and write the number(s) of the nominee(s) on the line below. | | | 1 | _ |
| The Board of Directors recommends you vote FOR the following: | 0 | D | 0 | comparing of the nomineedy on the line delow. | | | | |
| Election of Class I Directors to serve until the 2024 Annual Meeting of Stockholders, and until their respective successors shall have been duly elected and qualified | | | | 10 A. | | | | |
| Nominees: | | | | | | | | |
| 01) Edward Anderson 02) Konstantin Poukalov 03) Nancy L. Snyderman, M.D., FACS | | | | | | | | |
| The Board of Directors recommends you vote FOR the follo | owing | proposal: | | | | For | Against | Abstain |
| To ratify the appointment of BDO USA, LLP as the 0 December 31, 2021. | Compa | ny's indep | endent re | egistered public accounting firm for the fiscal ye | ar ending | 0 | 0 | D |
| NOTE: Such other business as may properly come before the me | eting of | any contin | uation, po | stponement or adjournment thereof. | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| Please sign exactly as your name(U appear(s) hereon. When sign administrator, or other fiduciary, please give full title as such. Jos personaly, All holden must sign. If a corporation or partmenhip, or partmenhip name by automized officier. | nt own | ers should e | sach sign | | | | | |
| | | | | | | | | |
| Signature (PLEASE SIGN WITHIN BOX) Date | | | | Signature (Joint Owners) D | ate | | | |

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting: The Notice and Proxy Statement and Form 10-K are available at www.proxyvote.com



Continued and to be signed on reverse side