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# SCHEDULE 14A INFORMATION

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

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Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

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

## REPARE 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 all boxes that apply)

- No fee required.
  - Fee paid previously with preliminary materials.
  - Fee computed on table in exhibit required by Item 25(b) per Exchange Act Rules 14a-6(i)(1) and 0-11.
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P.O. BOX 8016, CARY, NC 27512-9903

**Repare Therapeutics Inc.  
Important Notice Regarding the Availability  
of Proxy Materials**

**Shareholders Meeting to be held on  
June 8, 2023**

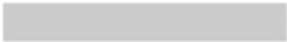
**For Shareholders of record as of April 10, 2023**

This communication presents only an overview of the more complete proxy materials that are available to you on the Internet. This is not a ballot. You cannot use this notice to vote your shares. We encourage you to access and review all of the important information contained in the proxy materials before voting. To appoint a third party proxyholder, a shareholder of record must return its proxy card by mail in accordance with the instructions provided in the proxy materials by no later than 10:00 A.M., Eastern Time, on June 6, 2023.

To view the proxy materials, and to obtain directions to attend the meeting, go to: [www.proxydocs.com/RPTX](http://www.proxydocs.com/RPTX)

To vote your proxy while visiting this site, you will need the 12 digit control number in the box below.

Under United States Securities and Exchange Commission rules, proxy materials do not have to be delivered in paper. Proxy materials can be distributed by making them available on the internet.



**For a convenient way to view proxy materials and VOTE go to  
[www.proxydocs.com/RPTX](http://www.proxydocs.com/RPTX)**

**Have the 12 digit control number located in the shaded box above available  
when you access the website and follow the instructions.**

*If you want to receive a paper or e-mail copy of the proxy materials, you must request one. There is no charge to you for requesting a copy. In order to receive a paper package in time for the deadline to submit voting instructions, as applicable, and this year's meeting, you must make this request on or before 5:00 PM, Eastern Time, on May 26, 2023.*

**To order paper materials, use one of the following methods.**



**INTERNET**  
[www.investorelections.com/RPTX](http://www.investorelections.com/RPTX)

When requesting via the Internet or telephone you will need the 12 digit control number located in the shaded box above.



**TELEPHONE**  
**(866) 648-8133**



**\* E-MAIL**  
[paper@investorelections.com](mailto:paper@investorelections.com)

\* If requesting material by e-mail, please send a blank e-mail with the 12 digit control number (located above) in the subject line. No other requests, instructions OR other inquiries should be included with your e-mail requesting material.

**Repare Therapeutics Inc.**

**Meeting Type:** Annual Meeting of Shareholders

**Date:** Thursday, June 8, 2023

**Time:** 10:00 AM, Eastern Time

**Place:** Annual Meeting to be held live via the Internet - please visit [www.proxydocs.com/RPTX](http://www.proxydocs.com/RPTX) for more details.

For information about this notice, please call (888) 464-5457.

**You must pre-register to attend the meeting online and/or participate at [www.proxydocs.com/RPTX](http://www.proxydocs.com/RPTX).**

**SEE REVERSE FOR FULL AGENDA**

# Repare Therapeutics Inc.

## Annual Meeting of Shareholders

**THE BOARD OF DIRECTORS RECOMMENDS A VOTE FOR EACH OF THE DIRECTOR NOMINEES LISTED IN PROPOSAL 1 AND FOR PROPOSALS 2 AND 3**

### PROPOSAL

1. To elect our three nominees as Class III directors: Samarth Kulkarni, Ph.D., Briggs Morrison, M.D. and Lloyd M. Segal, to our board of directors, each to hold office until our Annual Meeting of Shareholders in 2026.
  - 1.01 Samarth Kulkarni, Ph.D.
  - 1.02 Briggs Morrison, M.D.
  - 1.03 Lloyd M. Segal
2. To approve, on an advisory basis, the compensation of the Company's named executive officers, as disclosed in this proxy statement.
3. To appoint Ernst & Young LLP as the independent registered public accounting firm of the Company for its fiscal year ending December 31, 2023, and to authorize the Company's board of directors to fix Ernst & Young LLP's remuneration.

NOTE: To conduct any other business properly brought before the Annual Meeting

For additional information, see "Proposal 1: Election of Directors", "Proposal 2: Advisory Vote On Executive Compensation", and "Proposal 3: Ratification of Selection of Independent Registered Public Accounting Firm" of the proxy statement for the 2023 Annual Meeting of Shareholders of Repare Therapeutics Inc.