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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**SCHEDULE 14A**

**PROXY STATEMENT PURSUANT TO SECTION 14(a) OF THE  
SECURITIES EXCHANGE ACT OF 1934**

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-11(c) or §240.14a-2

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**LEXEO THERAPEUTICS, INC.**

(Name of Registrant as Specified In Its Charter)

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

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee paid previously with preliminary materials.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(4) and 0-11.
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# Your **Vote** Counts!

LEXEO THERAPEUTICS, INC.

2024 Annual Meeting  
Vote by June 24, 2024  
11:59 PM ET



LEXEO THERAPEUTICS, INC.  
345 PARK AVENUE SOUTH, FLOOR 6  
NEW YORK, NY 10010

V49852-P08289

## You invested in LEXEO THERAPEUTICS, INC. and it's time to vote!

You have the right to vote on proposals being presented at the Annual Meeting. **This is an important notice regarding the availability of proxy materials for the stockholder meeting to be held on June 25, 2024.**

### Get informed before you vote

View the Notice and Proxy Statement and Form 10-K online OR you can receive a free paper or email copy of the material(s) by submitting your request prior to June 11, 2024. If you would like to request a copy of the material(s) for this and/or future stockholder meetings, you may (1) visit [www.ProxyVote.com](http://www.ProxyVote.com), (2) call 1-800-579-1639 or (3) send an email to [sendmaterial@proxyvote.com](mailto:sendmaterial@proxyvote.com). If sending an email, please include your control number (indicated below) in the subject line. Unless requested, you will not otherwise receive a paper or email copy.



For complete information and to vote, visit [www.ProxyVote.com](http://www.ProxyVote.com)

Control #

#### Smartphone users

Point your camera here and  
vote without entering a  
control number



#### Vote Virtually at the Meeting\*

June 25, 2024  
11:00 a.m. ET

Virtually at:  
[www.virtualshareholdermeeting.com/LXEO2024](http://www.virtualshareholdermeeting.com/LXEO2024)

\*Please check the meeting materials for any special requirements for meeting attendance.

## THIS IS NOT A VOTABLE BALLOT

This is an overview of the proposals being presented at the upcoming stockholder meeting. Please follow the instructions on the reverse side to vote these important matters.

Voting Items	Board Recommendations
1. The election of Mette Kirstine Agger as the Class I director. <b>Nominee:</b> 1a. Mette Kirstine Agger	✔ For
2. The ratification of the appointment of KPMG LLP as our independent registered public accounting firm for our fiscal year ending December 31, 2024.	✔ For
<b>NOTE:</b> In their discretion, the proxyholders will vote on such other business as may properly come before the meeting or any adjournment or postponement thereof.	

Prefer to receive an email instead? While voting on [www.ProxyVote.com](http://www.ProxyVote.com), be sure to click "Delivery Settings".

