## 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 (Amendment No. )

Filed by the Registrant ⊠

Filed by a Party other than the Registrant  $\Box$ 

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

# **GENERATION BIO CO.**

(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):

 $\boxtimes$  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:

(5) Total fee paid:

 $\Box$  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:

GONEIANTON BO CO. 30 I BINEY STRET CAMBRIDGE, MA 02142

# Your Vote Counts!

#### GENERATION BIO CO.

2021 Annual Meeting Vote by June 8, 2021 11:59 PM ET



D36858-P49278

#### You invested in GENERATION BIO CO. 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 material for the stockholder meeting to be held on June 9, 2021.

#### Get informed before you vote

View the Notice and Proxy Statement and Annual Report online OR you can receive a free paper or email copy of the material(s) by requesting prior to May 26, 2021. 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, (2) call 1-800-579-1639 or (3) send an email to 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 info                                                                       | ntrol # |                               |                                                                                                 |
|-----------------------------------------------------------------------------------------|---------|-------------------------------|-------------------------------------------------------------------------------------------------|
| Smartphone users<br>Point your camera here a<br>vote without entering<br>control number |         | Virtually at:<br>www.virtuals | Vote Virtually at the Meeting<br>June 9, 2021<br>8:00 AM, EDT<br>hareholdermeeting.com/GBIO2021 |

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## Vote at www.ProxyVote.com

#### 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<br>Recommen |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------|
| <ul> <li>Election of three Class I director<br/>Nominees:</li> <li>01) Jeffrey Jonas, M.D.</li> <li>02) Geoff McDonough, M.D.</li> <li>03) Donald Nicholson, Ph.D.</li> </ul>       | rs to our board of directors, each to serve until the 2024 Annual Meeting of Stockholders;                       | 🕑 For             |
| <ol> <li>Ratification of the appointment of Ernst &amp; Young LLP as our independent registered public accounting firm for the fiscal<br/>year ending December 31, 2021.</li> </ol> |                                                                                                                  |                   |
| NOTE: In their discretion, the prox<br>he meeting and any adjournment                                                                                                               | yholders are authorized to vote upon such other business as may properly come before<br>or postponement thereof. |                   |
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| Prefer to receive an email i                                                                                                                                                        | instead? While voting on www.ProxyVote.com, be sure to click "Sign up for E-de                                   | livery".          |
|                                                                                                                                                                                     |                                                                                                                  |                   |
|                                                                                                                                                                                     | D36859-P49278                                                                                                    |                   |