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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**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. )**

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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

**bluebird bio, 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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# Your **Vote** Counts!

**BLUEBIRD BIO, INC.**

2024 Annual Meeting  
Vote by November 5, 2024  
11:59 PM ET



V47056-P17280

## You invested in BLUEBIRD BIO, 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 November 6, 2024.**

## 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 October 23, 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 in Person at the Meeting\*

November 6, 2024  
8:30 AM EST

455 Grand Union Boulevard  
Somerville, MA 02145

\*Please check the meeting materials for any special requirements for meeting attendance. At the meeting, you will need to request a ballot to vote these shares.

## 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 Recommends
1. Election of Class II Directors <b>Nominees:</b>	
1a. John O. Agwunobi	✔ For
1b. Elisabeth Leiderman	✔ For
1c. Andrew Obenshain	✔ For
2. The approval, on a non-binding, advisory basis, of the compensation of our named executive officers.	✔ For
3. The approval of an amendment to our Amended and Restated Certificate of Incorporation to provide for the exculpation of officers for certain breaches of fiduciary duty to the extent permitted by the General Corporation Law of the State of Delaware.	✔ For
4. The approval of amendments to our Amended and Restated Certificate of Incorporation to effect a reverse stock split of our common stock at a ratio ranging from any whole number between 1-for-15 and 1-for-20, as determined by our Board of Directors in its discretion.	✔ For
5. The approval of an amendment and restatement of our 2023 Incentive Award Plan to, among other things, increase the number of shares of common stock authorized for issuance thereunder.	✔ For
6. Ratification of the selection of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2024.	✔ For
7. The approval of an adjournment of the Annual Meeting, if necessary, to solicit additional proxies if there are not sufficient votes at the time of the Annual Meeting to approve Proposal 3, Proposal 4 and/or Proposal 5.	✔ For
<b>NOTE:</b> To transact any other business that may properly come before the meeting or any adjournment thereof.	

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