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## 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

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

## Ionis Pharmaceuticals, 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 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!

**IONIS PHARMACEUTICALS, INC.**

2022 Annual Meeting

Vote by June 01, 2022

11:59 PM ET

IONIS PHARMACEUTICALS, INC.  
2855 GAZELLE COURT  
CARLSBAD, CALIFORNIA 92010  
ATTN: CORPORATE SECRETARY



## You invested in IONIS PHARMACEUTICALS, 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 material for the stockholder meeting to be held on June 02, 2022.**

### Get informed before you vote

View the Notice & Proxy Statement, Form 10-K online OR you can receive a free paper or email copy of the material(s) by requesting prior to May 19, 2022. 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 02, 2022  
2:00 PM PDT

Virtually at:  
[www.virtualshareholdermeeting.com/IONS2022](http://www.virtualshareholdermeeting.com/IONS2022)

\*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 Recommends
1. Election of Directors <b>Nominees:</b> 01) Allene M. Diaz                      03) Joseph Klein, III 02) Michael Hayden                    04) Joseph Loscalzo	✔ For
2. To approve, by non-binding vote, executive compensation.	✔ For
3. Ratify the Audit Committee's selection of Ernst & Young LLP as independent auditors for the 2022 fiscal year.	✔ For

**NOTE:** Such other business as 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 "Sign up for E-delivery".