

---

---

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

---

**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. )**

---

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

**Inozyme Pharma, Inc.**  
(Name of Registrant as Specified in its Charter)

**Not applicable.**  
(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.

---

---



P.O. BOX 8016, CARY, NC 27512-9903

**Inozyme Pharma, Inc.**  
**Important Notice Regarding the**  
**Availability of Proxy Materials**  
**for the**  
**Stockholders Meeting to be held on**  
**June 10, 2022**

**For Stockholders as of record on April 11, 2022**

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 view the proxy statement and annual report, and to register to attend the virtual annual meeting, go to: [www.proxydocs.com/INZY](http://www.proxydocs.com/INZY)

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. We have chosen to use these procedures for our annual meeting.

**CONTROL NUMBER**



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

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

**Proxy Materials Available to View or Receive: Proxy Statement and Annual Report**

*If you want to receive a paper or e-mail copy of the proxy material, you must request one. There is no charge to you for requesting a copy. In order to receive a paper package in time for this year's meeting, you must make this request on or before May 31, 2022.*

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

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

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

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

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

\* 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.

**Inozyme Pharma, Inc.**

**Meeting Type:** Annual Meeting of Stockholders

**Date:** Friday, June 10, 2022

**Time:** 9:00 AM, Eastern Time

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

**In order to attend the meeting online and to vote your shares electronically during the meeting, you must register in advance at [www.proxydocs.com/INZY](http://www.proxydocs.com/INZY) prior to the registration deadline of June 8, 2022 at 5:00 p.m., Eastern Time.**

# Inozyme Pharma, Inc.

## Annual Meeting of Stockholders

**THE BOARD OF DIRECTORS RECOMMENDS A VOTE:**

**FOR EACH OF THE NOMINEES IN PROPOSAL 1 AND FOR PROPOSAL 2.**

**PROPOSAL**

1. The election of two Class II directors, Sarah Bhagat and Reinaldo Diaz, each to serve for a three-year term expiring at the 2025 annual meeting of stockholders.
  - 1.01 Sarah Bhagat
  - 1.02 Reinaldo Diaz
  
2. The ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2022.

**Note:** The proxies are authorized to vote, in their discretion, upon such other business that may properly come before the Annual Meeting or any adjournment or postponement thereof.