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

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**SCHEDULE 14A**  
**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 under Section 240.14a-12

**SYROS PHARMACEUTICALS, 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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**Online**

Go to [www.envisionreports.com/SYRS](http://www.envisionreports.com/SYRS) or scan the QR code – login details are located in the shaded bar below.

**Stockholder Meeting Notice**

**Important Notice Regarding the Availability of Proxy Materials for the Syros Pharmaceuticals, Inc. Annual Stockholder Meeting to be Held on June 1, 2022**

Under Securities and Exchange Commission rules, you are receiving this notice that the proxy materials for the annual stockholders' meeting are available on the Internet. Follow the instructions below to view the materials and vote online or request a copy. To obtain directions to register to attend the virtual annual meeting, go to: [www.envisionreports.com/SYRS](http://www.envisionreports.com/SYRS). The items to be voted on and instructions to attend the virtual annual meeting are on the reverse side. Your vote is important!

This communication presents only an overview of the more complete proxy materials that are available to you on the Internet. We encourage you to access and review all of the important information contained in the proxy materials before voting. The 2022 proxy statement and annual report to stockholders are available at:

[www.envisionreports.com/SYRS](http://www.envisionreports.com/SYRS)



**Easy Online Access – View your proxy materials and vote.**

- Step 1:** Go to [www.envisionreports.com/SYRS](http://www.envisionreports.com/SYRS).
- Step 2:** Click on **Cast Your Vote or Request Materials**.
- Step 3:** Follow the instructions on the screen to log in. To vote your proxy while visiting this site, you will need the 15 digit control number above.
- Step 4:** Make your selections as instructed on each screen for your delivery preferences.
- Step 5:** Vote your shares.

When you go online, you can also help the environment by consenting to receive electronic delivery of future materials.



**Obtaining a Copy of the Proxy Materials** - If you want to receive a copy of the proxy materials, you must request one. There is no charge to you for requesting a copy. Please make your request as instructed on the reverse side on or before May 20, 2022 to facilitate timely delivery.



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## Stockholder Meeting Notice

The Annual Meeting of Stockholders of Syros Pharmaceuticals, Inc. (the "Company") will be held on June 1, 2022 at 11:00am local time, virtually via the internet at [meetnow.global/MTTXWW9](https://meetnow.global/MTTXWW9).

Proposals to be voted on at the meeting are listed below along with the Board of Directors' recommendations.

The Board of Directors recommends a vote FOR all the nominees listed in Proposal 1, FOR Proposal 2 and 3 and for every 1 Year on Proposal 4:

1. Election of three Class III directors, each to serve for a three-year term expiring at the Company's 2025 annual meeting of stockholders and until her successor has been duly elected and qualified.  
01 - S. Gail Eckhardt, M.D.  
02 - Marsha H. Fanucci  
03 - Nancy A. Simonian, M.D.
2. Ratification of the appointment of Ernst & Young LLP as the Company's independent registered public accounting firm for the fiscal year ending December 31, 2022.
3. Approval, on a non-binding advisory basis, of the compensation of the Company's named executive officers.
4. Recommendation, on a non-binding advisory basis, of the frequency of future advisory votes on the compensation of the Company's named executive officers.

**PLEASE NOTE - YOU CANNOT VOTE BY RETURNING THIS NOTICE.** To vote your shares you must go online or request a paper copy of the proxy materials to receive a proxy card.



### Here's how to order a copy of the proxy materials and select delivery preferences:

Current and future delivery requests can be submitted using the options below.

If you request an email copy, you will receive an email with a link to the current meeting materials.

**PLEASE NOTE:** You must use the number in the shaded bar on the reverse side when requesting a copy of the proxy materials.

- **Internet** - Go to [www.envisionreports.com/SYRS](https://www.envisionreports.com/SYRS). Click Cast Your Vote or Request Materials.
- **Phone** - Call us free of charge at 1-866-641-4276.
- **Email** - Send an email to [investorvote@computershare.com](mailto:investorvote@computershare.com) with "Proxy Materials Syros Pharmaceuticals, Inc." in the subject line. Include your full name and address, plus the number located in the shaded bar on the reverse side, and state that you want a paper copy of the meeting materials.

To facilitate timely delivery, all requests for a paper copy of proxy materials must be received by May 20, 2022.