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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

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|---|--|--|
| 1. Name and Address of Reporting Person *<br><u>Fanucci Marsha</u><br><hr/> (Last) (First) (Middle)<br><u>C/O SYROS PHARMACEUTICALS, INC.</u><br><u>35 CAMBRIDGEPARK DRIVE</u><br><hr/> (Street)<br><u>CAMBRIDGE MA 02140</u><br><hr/> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>Syros Pharmaceuticals, Inc. [ SYRS ]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br><input checked="" type="checkbox"/> Director 10% Owner<br>Officer (give title below) Other (specify below)                          |
|   | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>06/05/2024</u>                      |  |
|   | 4. If Amendment, Date of Original Filed (Month/Day/Year)                                   | 6. Individual or Joint/Group Filing (Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person |

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) |   | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) |            |               | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|---------------|---|--|---|
|                                 |                                      |  | Code                           | V | Amount  | (A) or (D) | Price         |   |  |   |
| <u>Common Stock</u>             | <u>06/05/2024</u>                    |  | <u>A</u>                       |   | <u>4,000</u>  | <u>A</u>   | <u>\$0.00</u> | <u>16,000</u>   | <u>D</u>   |   |

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) |   | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) |     | 6. Date Exercisable and Expiration Date (Month/Day/Year) |                   | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |       |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|--|-------------------|---|--|--|---|--|-------|
|  |  |                                      |  | Code                           | V | (A)  | (D) | Date Exercisable   | Expiration Date   |   |  |  |   |  | Title |
| <u>Stock Option (right to buy)</u>         | <u>\$5.3</u>   | <u>06/05/2024</u>                    |  | <u>A</u>                       |   | <u>6,000</u>   |     | <u>(I)</u>   | <u>06/04/2034</u> | <u>Common Stock</u>   | <u>6,000</u>                               | <u>\$0.00</u>  | <u>6,000</u>  | <u>D</u>   |       |

**Explanation of Responses:**

1. The option becomes exercisable as to 50% of the shares underlying the award on the six month anniversary of the date of grant, with the remainder vesting in equal monthly installments of 8.33% of the shares underlying the award until the first anniversary of the date of grant, subject to the reporting person's continued service as a director through each applicable vesting date.

/s/ Todd Rosenthal, as attorney-in-fact 06/07/2024

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.