FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APP                  | ROVAL     |  |  |  |  |  |  |  |  |
|--------------------------|-----------|--|--|--|--|--|--|--|--|
| OMB Number:              | 3235-0287 |  |  |  |  |  |  |  |  |
| Estimated average burden |           |  |  |  |  |  |  |  |  |
| hours per response:      | 0.5       |  |  |  |  |  |  |  |  |

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940 Instruction 1(b)

| 1. Name and Address Tulipano Step |  | 2. Issuer Name <b>and</b> Ti<br>Stoke Therapeu |  |   |   | 5. F<br>(Ch | Relationship of Report<br>leck all applicable) Director Officer (give title | 10%           | Ssuer Owner (specify |   |   |   |  |  |
|-----------------------------------|--|--|--|---|---|-------------|---|---------------|----------------------|---|---|---|--|--|
| (Last) C/O STOKE TH 45 WIGGINS A  |  | 3. Date of Earliest Trai<br>02/22/2021         | nsaction                                 | ı (Mor  | nth/Day/Year)                           |             | below) `  |               | below)               |   |   |   |  |  |
| (Street) BEDFORD (City)           | MA<br>(State)  | 01730<br>(Zip)                                 |  | 4. If Amendment, Date                                       | e of Orig                               | inal F      | iled (Month/Da  | ay/Year)      | Lin                  | X Form filed by O   | up Filing (Check Anne Reporting Pensore than One Rep              | son   |  |  |
|                                   | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned |  |  |   |   |             |   |               |                      |   |   |   |  |  |
| 1. Title of Security (Instr. 3)   |  |  | 2. Transaction<br>Date<br>(Month/Day/Yea | 2A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 3.<br>Transaction<br>Code (Instr.<br>8) |             | 4. Securities Acquired (A) or<br>Disposed Of (D) (Instr. 3, 4 ar            |               |                      | 5. Amount of<br>Securities<br>Beneficially<br>Owned Following<br>Reported | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4) | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |  |  |
|                                   |  |  |  |   | Code                                    | v           | Amount  | (A) or<br>(D) | Price                | Transaction(s)<br>(Instr. 3 and 4)  |   | (111541. 4)   |  |  |
| Common Stock                      |  |  | 02/22/2021                               |   | М                                       |             | 25,000  | A             | \$4.48               | 25,602  | D   |   |  |  |
| Common Stock                      |  |  | 02/22/2021                               |   | S <sup>(1)</sup>                        |             | 15,202  | D             | \$58.6727            | 10,400  | D   |   |  |  |
| Common Stock                      |  |  | 02/22/2021                               |   | S <sup>(1)</sup>                        |             | 9,696   | D             | \$59.2865            | 704   | D   |   |  |  |
| Common Stock                      |  |  | 02/22/2021                               |   | S <sup>(1)</sup>                        |             | 102   | D             | \$60                 | 602   | D   |   |  |  |
| Common Stock                      |  |  | 02/23/2021                               |   | M                                       |             | 5,000   | Α             | \$4.48               | 5,602   | D   |   |  |  |
| Common Stock                      | 02/23/2021   |  | S <sup>(1)</sup>                         |   | 5,000                                   | D           | \$58.598  | 3 602         | D                    |   |   |   |  |  |
|                                   |  | Table I  |  | e Securities Acc<br>s, calls, warrant                       | •                                       | ,           | •   | ,             | •                    | Owned   |   |   |  |  |

| TOTAL |   |  |   |   |   |  |        |  |                    |   |  |   |  |  |  |
|---|---|--|---|---|---|--|--------|--|--------------------|---|--|---|--|--|--|
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)   | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) | 4.<br>Transaction<br>Code (Instr.<br>8) |   | 5. Number<br>of<br>Derivative<br>Securities<br>Acquired<br>(A) or<br>Disposed<br>of (D) (Instr.<br>3, 4 and 5) |        | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |                    | 7. Title and Amount<br>of Securities<br>Underlying<br>Derivative Security<br>(Instr. 3 and 4) |  | 8. Price of<br>Derivative<br>Security<br>(Instr. 5) | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 4) | 10.<br>Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|   |   |  |   | Code                                    | v | (A)  | (D)    | Date<br>Exercisable  | Expiration<br>Date | Title   | Amount<br>or<br>Number<br>of<br>Shares |   |  |  |  |
| Employee<br>Stock<br>Option<br>(Right to<br>Buy)  | \$4.48  | 02/22/2021                                 |   | M                                       |   |  | 25,000 | (4)  | 03/18/2029         | Common<br>Stock   | 25,000                                 | \$0.00  | 184,997  | D  |  |
| Employee<br>Stock<br>Option<br>(Right to<br>Buy)  | \$4.48  | 02/23/2021                                 |   | М                                       |   |  | 5,000  | (4)  | 03/18/2029         | Common<br>Stock   | 5,000                                  | \$0.00  | 179,997  | D  |  |

## **Explanation of Responses:**

- 1. The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
- 2. The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$58.00 to \$58.99 per share, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- 3. The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$59.00 to \$59.96 per share, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote
- 4. The option vested as to 1/4th of the total shares on March 15, 2020, and then 1/48th of the total shares vest monthly thereafter, subject to the reporting person's continued service to the issuer through each vesting date

## Remarks:

/s/ Stephen Tulipano

02/24/2021

\*\* 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.