

| OMB APPROVAL                                 |           |
|----------------------------------------------|-----------|
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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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

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

|                                                                                                                                                                                                                                                                  |                                                                                      |                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name and Address of Reporting Person*<br><b>RASTETTER WILLIAM H</b><br><br>(Last) (First) (Middle)<br><b>FATE THERAPEUTICS, INC.</b><br><b>3535 GENERAL ATOMICS COURT, SUITE 200</b><br><br>(Street)<br><b>SAN DIEGO CA 92121</b><br><br>(City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><b>FATE THERAPEUTICS INC [ FATE ]</b> | 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><b>06/02/2021</b>                |                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                  | 4. If Amendment, Date of Original Filed (Month/Day/Year)                             |                                                                                                                                                                                       |

**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  |                                                                                               |                                                          |                                                              |
| Common Stock <sup>(1)</sup>     | 06/02/2021                           |                                                    | A                              |   | 2,681                                                             | A          | \$0.00 | 2,681                                                                                         | D                                                        |                                                              |
| Common Stock                    |                                      |                                                    |                                |   |                                                                   |            |        | 146,821                                                                                       | I                                                        | By The Rastetter Family Trust, dated 09/02/10 <sup>(2)</sup> |
| Common Stock                    |                                      |                                                    |                                |   |                                                                   |            |        | 459,272                                                                                       | I                                                        | By The Investment 2002 Trust dated 11/11/02 <sup>(3)</sup>   |

**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 |
| Stock Option (Right to Buy)                | \$68.94                                                | 06/02/2021                           |                                                    | A                              |   | 4,334                                                                                  |     | (4)                                                      | 06/01/2031      | Common Stock                                                                      | 4,334                                      | \$0.00                                                                                             | 4,334                                                     | D                                                      |       |

**Explanation of Responses:**

- Award of restricted stock units that vest in full on the earlier of (i) June 2, 2022 or (ii) the date of the Issuer's 2022 Annual Meeting of Stockholders, subject to the Reporting Person's continued service on the Issuer's Board of Directors.
- These shares are owned of record by The Investment 2002 Trust, dated November 11, 2002 for which William H. Rastetter is the sole trustee and owner.
- These shares are owned of record by The Rastetter Family Trust, dated September 2, 2010 for which William H. Rastetter and Marisa Gard Rastetter serve as co-trustee
- The shares subject to this option shall vest and become exercisable on the earlier of (i) June 2, 2022 or (ii) the date of the Issuer's 2022 Annual Meeting of Stockholders, subject to the Reporting Person's continued service on the Issuer's Board of Directors.

**Remarks:**

/s/ Cindy R. Tahl, as Attorney-in-Fact 06/04/2021

\*\* 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.