

| OMB APPROVAL                                 |           |
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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).

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|--|--|---|
| 1. Name and Address of Reporting Person*<br><u>Redmile Group, LLC</u><br><hr/> (Last) (First) (Middle)<br>ONE LETTERMAN DRIVE, BUILDING D SUITE D3-300<br><hr/> (Street)<br>SAN FRANCISCO CA 94129<br><hr/> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>FATE THERAPEUTICS INC [ FATE ]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br><input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner<br>Officer (give title below) Other (specify below) |
|  | 3. Date of Earliest Transaction (Month/Day/Year)<br>06/09/2022                       |   |
| 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                    | 06/09/2022                           |  | A                              |   | 8,650 <sup>(1)</sup>  | A          | \$0.00 | 12,968,553  | I  | See footnotes <sup>(2)(3)(4)</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)                | \$23.48  | 06/09/2022                           |  | A                              |   | 11,893   |     | (5)  | 06/09/2032      | Common Stock  | 11,893                                     | \$0.00   | 11,893  | I  | See footnotes <sup>(2)(3)(4)</sup> |

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| 1. Name and Address of Reporting Person*<br><u>Redmile Group, LLC</u><br><hr/> (Last) (First) (Middle)<br>ONE LETTERMAN DRIVE, BUILDING D SUITE D3-300<br><hr/> (Street)<br>SAN FRANCISCO CA 94129<br><hr/> (City) (State) (Zip)                   |
| 1. Name and Address of Reporting Person*<br><u>Green Jeremy</u><br><hr/> (Last) (First) (Middle)<br>C/O REDMILE GROUP, LLC, ONE LETTERMAN DRIVE, BUILDING D SUITE D3-300<br><hr/> (Street)<br>SAN FRANCISCO CA 94129<br><hr/> (City) (State) (Zip) |

**Explanation of Responses:**

- The reported securities are represented by restricted stock units, which will vest in full upon the earlier of (i) June 9, 2023 or (ii) the date of the Issuer's 2023 Annual Meeting of Stockholders, subject to Michael Lee's continued service on the board of directors of the Issuer through the applicable vesting date.
- The equity award was granted to Mr. Lee, a managing director of Redmile Group, LLC ("Redmile"), in connection with his service as a member of the board of directors of the Issuer. Pursuant to the policies of Redmile, Mr. Lee holds this equity award as a nominee on behalf, and for the sole benefit, of Redmile and has assigned all economic, pecuniary and voting rights in respect of the equity award to Redmile. Mr. Lee disclaims beneficial ownership of the equity award, and the filing of this Form 4 shall not be deemed an admission that Mr. Lee is the beneficial owner of the securities for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose.
- The equity award may also be deemed beneficially owned by Jeremy Green as the principal of Redmile. Redmile and Mr. Green disclaim beneficial ownership of the equity award except to the extent of their pecuniary interest therein, and this Form 4 shall not be deemed an admission that Redmile or Mr. Green is the beneficial owner of the securities for purposes of Section 16 of the Securities Exchange Act of 1934, as amended.

amended, or for any other purpose.

4. Mr. Lee, a member of the board of directors of the Issuer and a managing director of Redmile, was elected to the board of the Issuer as a representative of Redmile. As a result, the Reporting Persons are directors by deputization for purposes of Section 16 of the Securities Exchange Act of 1934, as amended.

5. The stock option will vest in full upon the earlier of (i) June 9, 2023 or (ii) the date of the Issuer's 2023 Annual Meeting of Stockholders, subject to Michael Lee's continued service on the board of directors of the Issuer through the applicable vesting date.

By: /s/ Jeremy Green, Managing  
Member of Redmile Group,      06/13/2022  
LLC

/s/ Jeremy Green                                      06/13/2022

\*\* 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.**