FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden

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													0.5	
											Company Act									
						2. Issuer Name and Ticker or Trading Symbol FATE THERAPEUTICS INC [FATE]								5. Relationsh Check all ap X Dire	plicable)			to Issuer % Owne		
						3. Date of Earliest Transaction (Month/Day/Year) 09/25/2018								Offic belo	cer (give ti w)	tle		her (spec low)	cify	
Street) SAN FRANCI (City)	AN CA 94129 RANCISCO CA 94129					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Form filed by More than One Reporting Person						
				Non Dori	, ativo			- A			ionocad o	f a. r) Domofio	ially Over						
Table I - Non-Derivativ . Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year)					on	2A. Deemed Execution Date, ar) if any			3. Transaction		4. Securities	Acquired (A) or (D) (Instr. 3, 4 and		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	ion(s)			(Instr. 4))	
Common Stock 09/25/2018						3		P		3,703,704	A	\$13.	5 10,35	10,359,666		I		See Footnote ⁽¹⁾⁽²⁾		
		Та	able II								posed of, convertib									
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 Exer Expiration I (Month/Day)		cisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securiti Benefici Owned Followir Reporte Transac (Instr. 4)	re es ally ig d tion(s)	10. Owners Form: Direct (I or Indire (I) (Instr	hip of In Ben O) Own ect (Ins	Beneficial Ownership ct (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	cisable	Expiration Date	Title	Amount or Number of Shares							
Name and Address of Reporting Person* Redmile Group, LLC																				
(Last) (First) (Middle) ONE LETTERMAN DRIVE, BUILDING D SUITE D3-300																				
Street) SAN FRANCISCO CA 94129																				
(City)		(State)	(2	Zip)																

(City) (State) **Explanation of Responses:**

SAN FRANCISCO CA

<u>Green Jeremy</u>

(Last)

(Street)

1. Name and Address of Reporting Person*

C/O REDMILE GROUP, LLC

(First)

ONE LETTERMAN DR., BLDG. D, SUITE D3-300

(Middle)

94129

(Zip)

1. These securities are directly owned by certain private investment vehicles and separately managed accounts managed by Redmile Group, LLC ("Redmile") and may be deemed beneficially owned by Redmile as investment manager of such private investment vehicles and separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy Green as the principal of Redmile. The Reporting Persons disclaim beneficial ownership of the reported securities except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that such Reporting Persons are the beneficial owners of the securities for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose.

2. Michael 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.

/s/ Jeremy Green, Managing

Member of Redmile Group, 09/27/2018

LLC

<u>/s/ Jeremy Green</u> <u>09/27/2018</u>

** Signature of Reporting Person Da

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.