FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

			or Secti	on 30(h) of	the Investment Company Act	of 1940			
1. Name and Ad	•	ng Person* ATES V LP	2. Date of Ever Requiring State (Month/Day/Ye	ement	3. Issuer Name and Ticker or FATE THERAPEU				
(Last)	(First)	(Middle)	09/30/2013		4. Relationship of Reporting (Check all applicable)	Person(s) to Issu		Amendment, D nth/Day/Year)	Pate of Original Filed
C/O VENROO 3340 HILLVI					Director Officer (give title below)	X 10% Own Other (spe below)	6. Ir	licable Line)	nt/Group Filing (Check by One Reporting
(Street) PALO ALTO	CA	94304)	Form filed b	y More than One Person
(City)	(State)	(Zip)							
			Table I - No	n-Derivat	ive Securities Benefic	ially Owned			
1. Title of Secur	ity (Instr. 4)				2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownersh Form: Direct or Indirect (Instr. 5)	t (D) (Instr		Beneficial Ownership
		(e Securities Beneficial ants, options, converti		s)		
1. Title of Deriva	ative Security (I	nstr. 4)	2. Date Exerc Expiration Da (Month/Day/Y	ate	3. Title and Amount of Sec Underlying Derivative Sec		4. Conversion or	Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
			Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Exercise Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)	
Series A Conv	ertible Preferre	ed Stock	(1)	(1)	Common Stock	675,492	(1)	I	By Funds ⁽²⁾⁽³⁾
Series B Conv	ertible Preferre	ed Stock	(4)	(4)	Common Stock	265,252	(4)	I	By Funds ⁽³⁾⁽⁵⁾
Series C Conv	ertible Preferre	ed Stock	(1)	(1)	Common Stock	570,663	(1)	I	By Funds ⁽³⁾⁽⁶⁾
1. Name and Ad VENROCE (Last)	(First)	ng Person* ATES V LP (Midd	le)						

VENROCK ASSOCIATES V LP (Last) (First) (Middle) C/O VENROCK 3340 HILLVIEW AVENUE (Street) PALO ALTO CA 94304 (City) (State) (Zip)

VENROCK F		
(Last)	(First)	(Middle)
C/O VENROCK		
3340 HILLVIEW	/ AVENUE	
(Street)		
PALO ALTO	CA	94304
(City)	(State)	(Zip)
1. Name and Addres	ss of Reporting Pers	son [*]
Venrock Entr	repreneurs F	und V, L.P.
(Last)	(First)	(Middle)
C/O VENROCK		
3340 HILLVIEW	AVENUE	
(Street)		
PALO ALTO	CA	94304
(City)	(State)	(Zip)
1. Name and Addres	ss of Reporting Per	son [*]
Venrock Mar	-	
(Last)	(First)	(Middle)
C/O VENROCK		(Middle)
		(Middle)
C/O VENROCK 3340 HILLVIEW (Street)	/ AVENUE	
C/O VENROCK 3340 HILLVIEW	/ AVENUE	(Middle) 94304
C/O VENROCK 3340 HILLVIEW (Street)	/ AVENUE	
C/O VENROCK 3340 HILLVIEW (Street) PALO ALTO (City) 1. Name and Address	CA (State) ss of Reporting Pers	94304 (Zip)
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- 1. The aggregate number of shares of Issuer's Preferred Stock held by the Reporting Person converts into Common Stock immediately prior to the closing of the Issuer's initial public offering and has no expiration date. These shares convert into Common Stock on a 1-for-1 basis.
- 2. Consists of an aggregate of 609,497 shares of Series A Convertible Preferred Stock ("Series A Stock") held by Venrock Associates V, L.P. ("Venrock"), 51,675 shares of Series A Stock held by Venrock Partners V, L.P. ("Venrock Partners"), and 14,320 shares of Series A Stock held by Venrock Entrepreneurs Fund V, L.P. ("Venrock Entrepreneurs" and together with Venrock and Venrock Partners, the "Venrock Entities").
- 3. The sole general partner of Venrock is Venrock Management V, LLC ("VM5"). The sole general partner of Venrock Partners is Venrock Partners Management V, LLC ("VPM5"). The sole general partner of Venrock Entrepreneurs is VEF Management V, LLC ("VEFM5"). VM5, VPM5 and VEFM5 disclaim beneficial ownership over all shares held by the Venrock Entities, except to the extent of their indirect pecuniary interests therein.
- 4. The aggregate number of shares of Issuer's Preferred Stock held by the Reporting Person converts into Common Stock immediately prior to the closing of the Issuer's initial public offering and has no expiration date. These shares convert into Common Stock on approximately a 1-for-1.15 basis.
- 5. Consists of an aggregate of 239,337 shares of Series B Convertible Preferred Stock ("Series B Stock") held by Venrock, 20,292 shares of Series B Stock held by Venrock Partners, and 5,623 shares of Series B Stock held by Venrock Entrepreneurs.
- 6. Consists of an aggregate of 514,910 shares of Series C Convertible Preferred Stock ("Series C Stock") held by Venrock, 43,655 shares of Series C Stock held by Venrock Partners, and 12,098 shares of Series C Stock held by Venrock Entrepreneurs.

Remarks:

/s/ David L. Stepp, Authorized Signatory 09/30/2013

** 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 5 (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.

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