FATE THERAPEUTICS INC Form SC 13G/A February 14, 2018

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

FATE THERAPEUTICS, INC.

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

31189P102

(CUSIP Number)

December 31, 2017

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

o Rule 13d-1(b)

x Rule 13d-1(c)

o Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 31189P102

1.	Name of Reporting Persons Venrock Associates V, L.P.		
2.	Check the Appropriate Box if a (a) (b)	Member of a Group (See In x(1) o	nstructions)
3.	SEC Use Only		
4.	Citizenship or Place of Organiz Delaware	ation	
	5.		Sole Voting Power 0
Number of Shares Beneficially Owned by	6.		Shared Voting Power 2,473,187(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 2,473,187(2)
9.	Aggregate Amount Beneficially 2,473,187(2)	V Owned by Each Reporting	Person
10.	Check if the Aggregate Amount	t in Row (9) Excludes Certa	in Shares (See Instructions)
11.	Percent of Class Represented by 4.7%(3)	y Amount in Row (9)	
12.	Type of Reporting Person (See PN	Instructions)	

Venrock Associates V, L.P., Venrock Partners V, L.P. and Venrock Entrepreneurs Fund V, L.P. (collectively, the Venrock (1)Entities) and the general partner of each Venrock Entity respectively, Venrock Management V, LLC, Venrock Partners Management V, LLC and VEF Management V, LLC (collectively, the Venrock GPs) are members of a group for purposes of this Schedule 13G/A. The Venrock Entities and the Venrock GPs are collectively referred to herein as the Reporting Persons.

⁽²⁾ Consists of 2,231,558 shares of common stock owned by Venrock Associates V, L.P., 189,198 shares of common stock owned by Venrock Partners V, L.P. and 52,431 shares of common stock owned by Venrock Entrepreneurs Fund V, L.P.

⁽³⁾ This percentage is calculated based (a) 41,685,695 shares of the Issuer s common stock outstanding as of October 31, 2017 as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 1, 2017 and (b) 10,953,750 shares of common stock issued pursuant to an underwritten public offering that closed on December 15, 2017.

CUSIP No. 31189P102

1.	Name of Reporting Persons Venrock Partners V, L.P.		
2.	Check the Appropriate Box if a (a) (b)	Member of a Group (See In x(1) o	nstructions)
3.	SEC Use Only		
4.	Citizenship or Place of Organiz Delaware	ation	
	5.		Sole Voting Power 0
Number of Shares Beneficially Owned by	6.		Shared Voting Power 2,473,187(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 2,473,187(2)
9.	Aggregate Amount Beneficially 2,473,187(2)	V Owned by Each Reporting	Person
10.	Check if the Aggregate Amount	t in Row (9) Excludes Certa	in Shares (See Instructions)
11.	Percent of Class Represented by 4.7%(3)	y Amount in Row (9)	
12.	Type of Reporting Person (See PN	Instructions)	

Venrock Associates V, L.P., Venrock Partners V, L.P. and Venrock Entrepreneurs Fund V, L.P. (collectively, the Venrock (1)Entities) and the general partner of each Venrock Entity respectively, Venrock Management V, LLC, Venrock Partners Management V, LLC and VEF Management V, LLC (collectively, the Venrock GPs) are members of a group for purposes of this Schedule 13G/A. The Venrock Entities and the Venrock GPs are collectively referred to herein as the Reporting Persons.

⁽²⁾ Consists of 2,231,558 shares of common stock owned by Venrock Associates V, L.P., 189,198 shares of common stock owned by Venrock Partners V, L.P. and 52,431 shares of common stock owned by Venrock Entrepreneurs Fund V, L.P.

⁽³⁾ This percentage is calculated based (a) 41,685,695 shares of the Issuer s common stock outstanding as of October 31, 2017 as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 1, 2017 and (b) 10,953,750 shares of common stock issued pursuant to an underwritten public offering that closed on December 15, 2017.

CUSIP No. 31189P102

1.	Name of Reporting Persons Venrock Entrepreneurs Fund V	, L.P.	
2.	Check the Appropriate Box if a (a) (b)	Member of a Group (See In x(1) o	nstructions)
3.	SEC Use Only		
4.	Citizenship or Place of Organiz Delaware	ation	
	5.		Sole Voting Power 0
Number of Shares Beneficially	6.		Shared Voting Power 2,473,187(2)
Owned by Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 2,473,187(2)
9.	Aggregate Amount Beneficially 2,473,187(2)	V Owned by Each Reporting	Person
10.	Check if the Aggregate Amount	t in Row (9) Excludes Certa	in Shares (See Instructions)
11.	Percent of Class Represented by 4.7%(3)	y Amount in Row (9)	
12.	Type of Reporting Person (See PN	Instructions)	

Venrock Associates V, L.P., Venrock Partners V, L.P. and Venrock Entrepreneurs Fund V, L.P. (collectively, the Venrock (1)Entities) and the general partner of each Venrock Entity respectively, Venrock Management V, LLC, Venrock Partners Management V, LLC and VEF Management V, LLC (collectively, the Venrock GPs) are members of a group for purposes of this Schedule 13G/A. The Venrock Entities and the Venrock GPs are collectively referred to herein as the Reporting Persons.

⁽²⁾ Consists of 2,231,558 shares of common stock owned by Venrock Associates V, L.P., 189,198 shares of common stock owned by Venrock Partners V, L.P. and 52,431 shares of common stock owned by Venrock Entrepreneurs Fund V, L.P.

⁽³⁾ This percentage is calculated based (a) 41,685,695 shares of the Issuer s common stock outstanding as of October 31, 2017 as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 1, 2017 and (b) 10,953,750 shares of common stock issued pursuant to an underwritten public offering that closed on December 15, 2017.

CUSIP No. 31189P102

1.	Name of Reporting Persons Venrock Management V, LLC		
2.	Check the Appropriate Box if a (a) (b)	Member of a Group (See Ir x(1) o	astructions)
3.	SEC Use Only		
4.	Citizenship or Place of Organiza Delaware	ation	
	5.		Sole Voting Power 0
Number of Shares Beneficially Owned by	6.		Shared Voting Power 2,473,187(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 2,473,187(2)
9.	Aggregate Amount Beneficially 2,473,187(2)	Owned by Each Reporting	Person
10.	Check if the Aggregate Amount	t in Row (9) Excludes Certa	in Shares (See Instructions)
11.	Percent of Class Represented by 4.7%(3)	Amount in Row (9)	
12.	Type of Reporting Person (See 2000)	Instructions)	

Venrock Associates V, L.P., Venrock Partners V, L.P. and Venrock Entrepreneurs Fund V, L.P. (collectively, the Venrock (1)Entities) and the general partner of each Venrock Entity respectively, Venrock Management V, LLC, Venrock Partners Management V, LLC and VEF Management V, LLC (collectively, the Venrock GPs) are members of a group for purposes of this Schedule 13G/A. The Venrock Entities and the Venrock GPs are collectively referred to herein as the Reporting Persons.

⁽²⁾ Consists of 2,231,558 shares of common stock owned by Venrock Associates V, L.P., 189,198 shares of common stock owned by Venrock Partners V, L.P. and 52,431 shares of common stock owned by Venrock Entrepreneurs Fund V, L.P.

⁽³⁾ This percentage is calculated based (a) 41,685,695 shares of the Issuer s common stock outstanding as of October 31, 2017 as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 1, 2017 and (b) 10,953,750 shares of common stock issued pursuant to an underwritten public offering that closed on December 15, 2017.

CUSIP No. 31189P102

1.	Name of Reporting Persons Venrock Partners Management	V, LLC	
2.	Check the Appropriate Box if a (a) (b)	Member of a Group (See In x(1) o	structions)
3.	SEC Use Only		
4.	Citizenship or Place of Organiz Delaware	ation	
	5.		Sole Voting Power 0
Number of Shares Beneficially Owned by	6.		Shared Voting Power 2,473,187(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 2,473,187(2)
9.	Aggregate Amount Beneficially 2,473,187(2)	V Owned by Each Reporting	Person
10.	Check if the Aggregate Amoun	t in Row (9) Excludes Certa	in Shares (See Instructions)
11.	Percent of Class Represented by 4.7%(3)	y Amount in Row (9)	
12.	Type of Reporting Person (See OO	Instructions)	

Venrock Associates V, L.P., Venrock Partners V, L.P. and Venrock Entrepreneurs Fund V, L.P. (collectively, the Venrock (1)Entities) and the general partner of each Venrock Entity respectively, Venrock Management V, LLC, Venrock Partners Management V, LLC and VEF Management V, LLC (collectively, the Venrock GPs) are members of a group for purposes of this Schedule 13G/A. The Venrock Entities and the Venrock GPs are collectively referred to herein as the Reporting Persons.

⁽²⁾ Consists of 2,231,558 shares of common stock owned by Venrock Associates V, L.P., 189,198 shares of common stock owned by Venrock Partners V, L.P. and 52,431 shares of common stock owned by Venrock Entrepreneurs Fund V, L.P.

⁽³⁾ This percentage is calculated based (a) 41,685,695 shares of the Issuer s common stock outstanding as of October 31, 2017 as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 1, 2017 and (b) 10,953,750 shares of common stock issued pursuant to an underwritten public offering that closed on December 15, 2017.

CUSIP No. 31189P102

1.	Name of Reporting Persons VEF Management V, LLC		
2.	Check the Appropriate Box if a (a) (b)	Member of a Group (See In x(1) o	nstructions)
3.	SEC Use Only		
4.	Citizenship or Place of Organiz Delaware	ation	
	5.		Sole Voting Power 0
Number of Shares Beneficially Owned by	6.		Shared Voting Power 2,473,187(2)
Each Reporting Person With:	7.		Sole Dispositive Power 0
	8.		Shared Dispositive Power 2,473,187(2)
9.	Aggregate Amount Beneficially 2,473,187(2)	V Owned by Each Reporting	Person
10.	Check if the Aggregate Amoun	t in Row (9) Excludes Certa	in Shares (See Instructions)
11.	Percent of Class Represented by 4.7%(3)	y Amount in Row (9)	
12.	Type of Reporting Person (See OO	Instructions)	

Venrock Associates V, L.P., Venrock Partners V, L.P. and Venrock Entrepreneurs Fund V, L.P. (collectively, the Venrock (1)Entities) and the general partner of each Venrock Entity respectively, Venrock Management V, LLC, Venrock Partners Management V, LLC and VEF Management V, LLC (collectively, the Venrock GPs) are members of a group for purposes of this Schedule 13G/A. The Venrock Entities and the Venrock GPs are collectively referred to herein as the Reporting Persons.

⁽²⁾ Consists of 2,231,558 shares of common stock owned by Venrock Associates V, L.P., 189,198 shares of common stock owned by Venrock Partners V, L.P. and 52,431 shares of common stock owned by Venrock Entrepreneurs Fund V, L.P.

⁽³⁾ This percentage is calculated based (a) 41,685,695 shares of the Issuer s common stock outstanding as of October 31, 2017 as reported in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 1, 2017 and (b) 10,953,750 shares of common stock issued pursuant to an underwritten public offering that closed on December 15, 2017.

Introductory Note: This Statement on Schedule 13G/A is filed on behalf of Venrock Associates V, L.P., a limited partnership organized under the laws of the State of Delaware, Venrock Partners V, L.P., a limited partnership organized under the laws of the State of Delaware, Venrock Entrepreneurs Fund V, L.P., a limited partnership organized under the laws of the State of Delaware (collectively, the Venrock Entities), as well as Venrock Management V, LLC, a limited liability company organized under the laws of the State of Delaware, Venrock Partners Management V, LLC, a limited liability company organized under the laws of the State of Delaware, Venrock Partners Management V, LLC, a limited liability company organized under the laws of the State of Delaware and VEF Management V, LLC, a limited liability company organized under the laws of the State of Delaware (collectively, the Venrock GPs) in respect of shares of common stock of Fate Therapeutics, Inc.

Item 1.					
	(a)		Name of Issuer		
			Fate Therapeutics, I	Inc.	
	(b)		Address of Issuer s	Principal Executive Offices	
			3535 General Atom	ics Court, Suite 200	
			San Diego, Californ	nia 92121	
Item 2.	()		N (D E'I		
	(a)		Name of Person Fil	-	
			Venrock Associates		
			Venrock Partners V		
			Venrock Entreprene Venrock Manageme		
				Ianagement V, LLC	
			VEF Management V		
	(b)			l Business Office or, if none, Residence	
New York Office:			ſ	Palo Alto Office:	Boston Office:
530 Fifth Avenue				3340 Hillview Avenue	34 Farnsworth Street
22nd Floor				Palo Alto, CA 94304	3rd Floor
New York, NY 100	036				Boston, MA 02210
		(c)		Citizenship	
					limited partnerships organized in the State
					ck GPs are limited liability companies
				organized in the State of Delawa	re.
		(d)		Title of Class of Securities	
				Common Stock	
		(e)		CUSIP Number	
				31189P102	
Item 3.		If this s	statement is filed purs	uant to §§240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is
		a:	_		· · · · · · · · · · · · · · · · · · ·
		Not app	olicable		

Item 4. Ownership

(a) Amount beneficially owned as of December 31, 2017:

Venrock Associates V, L.P.	2,473,187(1)
Venrock Partners V, L.P.	2,473,187(1)
Venrock Entrepreneurs Fund V, L.P.	2,473,187(1)
Venrock Management V, LLC	2,473,187(1)
Venrock Partners Management V, LLC	2,473,187(1)
VEF Management V, LLC	2,473,187(1)

(b) Percent of class as of December 31, 2017:

Venrock Associates V, L.P.	4.7%
Venrock Partners V, L.P.	4.7%
Venrock Entrepreneurs Fund V, L.P.	4.7%
Venrock Management V, LLC	4.7%
Venrock Partners Management V, LLC	4.7%
VEF Management V, LLC	4.7%

(c) Number of shares as to which the person has, as of December 31, 2017:

(i) Sole power to vote or to direct the vote

Venrock Associates V, L.P.	0
Venrock Partners V, L.P.	0
Venrock Entrepreneurs Fund V, L.P.	0
Venrock Management V, LLC	0
Venrock Partners Management V, LLC	0
VEF Management V, LLC	0

(ii) Shared power to vote or to direct the vote

2,473,187(1)
2,473,187(1)
2,473,187(1)
2,473,187(1)
2,473,187(1)
2,473,187(1)

(iii) Sole power to dispose or to direct the disposition of

Venrock Associates V, L.P.	0
Venrock Partners V, L.P.	0
Venrock Entrepreneurs Fund V, L.P.	0
Venrock Management V, LLC	0
Venrock Partners Management V, LLC	0
VEF Management V, LLC	0

(iv) Shared power to dispose or to direct the disposition of

Venrock Associates V, L.P.	2,473,187(1)
Venrock Partners V, L.P.	2,473,187(1)
Venrock Entrepreneurs Fund V, L.P.	2,473,187(1)
Venrock Management V, LLC	2,473,187(1)
Venrock Partners Management V, LLC	2,473,187(1)
VEF Management V, LLC	2,473,187(1)

⁽¹⁾ These shares are owned directly as follows: 2,231,558 shares of common stock are owned by Venrock Associates V, L.P., 189,198 shares of common stock are owned by Venrock Partners V, L.P. and 52,431 shares of common stock are owned by Venrock Entrepreneurs Fund V, L.P. Venrock Management V, LLC is the general partner of Venrock Associates V, L.P.; Venrock Partners Management V, LLC is the general partner of Venrock Partners V, L.P.; and VEF Management V, LLC is the general partner of Venrock Entrepreneurs Fund V, L.P.

Item 5.Ownership of Five Percent or Less of a ClassIf this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following x.					
Item 6. Not Applicable	Ownership of More than Five Percent on Behalf of Another Person				
Item 7.	Identification and Classification of the Subsidiary Which Acquired the Security Being				
Not Applicable	Reported on By the Parent Holding Company or Control Person.				
Item 8. Not Applicable	Identification and Classification of Members of the Group				
Item 9. Not Applicable	Notice of Dissolution of a Group				

Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this Statement is true, complete and correct.

Dated: February 13, 2018

Name: David L. Stepp Title: Authorized Signatory

Venrock Associates V, L.P.		Venrock	Venrock Management V, LLC	
By:		Venrock Management V, LLC, its General Partner	By:	/s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory
By:		/s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory		
Venrock Pa	artners V, L.P.		Venrock Partners Management V, LLC	
By:		Venrock Partners Management V, LLC, its General Partner	By:	/s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory
By:		/s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory		
Venrock Entrepreneurs Fund V, L.P.		VEF Management V, LLC		
By:	VEF Manageme its General Part		By:	/s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory
By:	/s/ David L. Ste			

EXHIBITS

A: Joint Filing Agreement (Incorporated by reference to Exhibit A to Schedule 13G filed October 11, 2013).