UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934 (Amendment No. __)*

FATE THERAPEUTICS, INC.

(Name of Issuer)

COMMON STOCK (Title of Class of Securities)

> 31189P102 (CUSIP Number)

October 4, 2013 (Date of Event Which Requires Filing of This Statement)

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

 \Box Rule 13d-1(b)

 \boxtimes Rule 13d-1(c)

 \Box 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).

1.	Name of Reporting Persons Venrock Associates V, L.P.					
2.		Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠1 (b) □				
3.	SEC U	SE O	NLY			
4.	Citizer	nship	or Place of Organization			
	Delay	vare				
		5.	Sole Voting Power			
Nurr	uber of		0			
Sh	ares	6.	Shared Voting Power			
	ficially red by		2,473,1872			
	ach orting	7.				
Pe	rson ith:		0			
vv	1111.	8.				
			2,473,1872			
9.	Aggre	gate A	Amount Beneficially Owned by Each Reporting Person			
	2,473	.187	2			
10.			e Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)			
11.	Percen	tofC	Class Represented by Amount in Row (9)			
	12.2%	12.2%3				
12.	Туре с	Type of Reporting Person (See Instructions)				
	PN	PN				

- Venrock Associates V, L.P., Venrock Partners V, L.P. and Venrock Entrepreneurs Fund V, L.P. (collectively, the "Venrock 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. 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 upon 20,357,158 shares of the Issuer's common stock outstanding as of October 4, 2013, as provided to the Reporting Persons by the Issuer.

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00011 1101	. 31189P1	02				
1.	Name of Reporting Persons Venrock Partners V, L.P.					
2.		Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠1 (b) □				
3.	SEC U	SE O	NLY			
4.	Citizer	nship	or Place of Organization			
	Delav	vare				
	•	5.	Sole Voting Power			
Num	ber of		0			
Sh	ares ficially	6.	Shared Voting Power			
Own	ed by		2,473,1872			
Repo	ach orting	7.				
-	rson ïth:		0			
		8.	Shared Dispositive Power			
			2,473,1872			
9.	Aggreg	gate A	amount Beneficially Owned by Each Reporting Person			
	2,473	2,473,1872				
10.			Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)			
11.	Percen	tofC	lass Represented by Amount in Row (9)			
	12.2%3					
12.	Туре о	Type of Reporting Person (See Instructions)				
	PN	PN				

¹ The Reporting Persons are members of a group for purposes of this Schedule 13G.

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 upon 20,357,158 shares of the Issuer's common stock outstanding as of October 4, 2013, as provided to the Reporting Persons by the Issuer.

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Name o	CD			
Name of Reporting Persons Venrock Entrepreneurs Fund V, L.P.				
Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠1 (b) □				
SEC USE ONLY				
Citizen	ship	or Place of Organization		
Delaw	are			
	5.	Sole Voting Power		
er of		0		
res	6.	Shared Voting Power		
d by		2,473,1872		
rting	7.	Sole Dispositive Power		
on h:		0		
	8.	Shared Dispositive Power		
		2,473,1872		
Aggreg	ate A	mount Beneficially Owned by Each Reporting Person		
2,473.	1872	2		
		Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		
Percent	ofC	lass Represented by Amount in Row (9)		
12.2%3				
Type of Reporting Person (See Instructions)				
PN				
	Check (a) ⊠1 SEC US Citizen Delaw er of res cially d by th ting on h: Aggreg 2,473, Check Percent 12.2%	Check the A (a) 🗵 1 SEC USE ON Citizenship of Delaware 5. er of cially d by ch fring on h: 8. Aggregate A 2,473,1872 Check if the Percent of C 12.2%3 Type of Rep		

¹ The Reporting Persons are members of a group for purposes of this Schedule 13G.

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.

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		02				
1.	Name of Reporting Persons Venrock Management V, LLC					
2.		Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠ ¹ (b) □				
3.	SEC U	SE OI	νLΥ			
4.	Citizer	nship	or Place of Organization			
	Delav	vare				
		5.	Sole Voting Power			
Num	ber of		0			
	ares ficially	6.	Shared Voting Power			
Own	ed by ach		2,473,1872			
Repo	orting	7.	Sole Dispositive Power			
	rson ith:		0			
		8.	Shared Dispositive Power			
			2,473,1872			
9.	Aggreg	gate A	mount Beneficially Owned by Each Reporting Person			
	2,473	,1872	2			
10.	Check	ifthe	Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)			
11.	Percen	tofC	lass Represented by Amount in Row (9)			
	12.2%	6 3				
12.	Туре о	Type of Reporting Person (See Instructions)				
	00					

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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 upon 20,357,158 shares of the Issuer's common stock outstanding as of October 4, 2013, as provided to the Reporting Persons by the Issuer.

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1.	Name of Reporting Persons Venrock Partners Management V, LLC					
2.		Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠1 (b) □				
3.	SEC U	SE ONLY				
4.	Citizen	ship or Place of Organization				
	Delaw	Delaware				
	•	5. Sole Voting Power				
Num	ber of	0				
	ares	6. Shared Voting Power				
Own	ficially ed by ach	2,473,1872				
Repo	orting rson	7. Sole Dispositive Power				
	ith:	0				
		8. Shared Dispositive Power				
		2,473,1872				
9.	Aggreg	ate Amount Beneficially Owned by Each Reporting Person				
	2,473	,1872				
10.	Check	if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)				
11.	Percent of Class Represented by Amount in Row (9)					
	12.2%					
12.	Type o	Type of Reporting Person (See Instructions)				
	00					

¹ The Reporting Persons are members of a group for purposes of this Schedule 13G.

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 upon 20,357,158 shares of the Issuer's common stock outstanding as of October 4, 2013, as provided to the Reporting Persons by the Issuer.

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cesh no	189P102			
1.	Name of Reporting Persons VEF Management V, LLC			
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) ⊠ ¹ (b) □			
3.	SEC USE ONLY			
4.	Citizenship or Place of Organization			
	Delaware			
	5. Sole Voting Power			
Num	r of 0			
Sh	s 6. Shared Voting Power			
Bene Owr	by 2 473 1872			
E Rep	7 Solo Dispositivo Dover			
Pe W				
	8. Shared Dispositive Power			
	2,473,1872			
9.	Aggregate Amount Beneficially Owned by Each Reporting Person			
	2,473,1872			
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)			
11.	Percent of Class Represented by Amount in Row (9)			
	12.2%3			
12.	Type of Reporting Person (See Instructions)			
	00			

¹ The Reporting Persons are members of a group for purposes of this Schedule 13G.

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 upon 20,357,158 shares of the Issuer's common stock outstanding as of October 4, 2013, as provided to the Reporting Persons by the Issuer.

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Introductory Note: This Statement on Schedule 13G 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, 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 State of States of States of Common stock of Fate Therapeutics, Inc.

Item 1.

- (a) Name of Issuer Fate Therapeutics, Inc.
- (b) Address of Issuer's Principal Executive Offices 3535 General Atomics Court, Suite 200 San Diego, California 92121

Item 2.

- (a) Name of Person Filing Venrock Associates V, L.P. Venrock Partners V, L.P. Venrock Entrepreneurs Fund V, L.P. Venrock Management V, LLC Venrock Partners Management V, LLC VEF Management V, LLC
- (b) Address of Principal Business Office or, if none, Residence

New York Office:	Palo Alto Office:	Cambridge Office:
530 Fifth Avenue 22nd Floor New York, NY 10036	3340 Hillview Avenue Palo Alto, CA 94304	55 Cambridge Parkway Suite 100 Cambridge, MA 02142
(c) Citizenshin		

- (c) Citizenship
 - Each of the Venrock Entities are limited partnerships organized in the State of Delaware. Each of the Venrock GPs are limited liability companies organized in the State of Delaware.
- (d) Title of Class of Securities Common Stock
- (e) CUSIP Number 31189P102

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Item 3. If this statement is filed pursuant to §§240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a: Not applicable

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Item 4. Ownership

(a) Amount Beneficially Owned:

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:

Venrock Associates V, L.P.	12.2%
Venrock Partners V, L.P.	12.2%
Venrock Entrepreneurs Fund V, L.P.	12.2%
Venrock Management V, LLC	12.2%
Venrock Partners Management V, LLC	12.2%
VEF Management V, LLC	12.2%

(c) Number of shares as to which the person has:

(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

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)

(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

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(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 Associates 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 Class

If 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 \Box .

Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Not Applicable

Item 8. Identification and Classification of Members of the Group

Not Applicable

Item 9. Notice of Dissolution of a Group

Not Applicable

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.

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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: October 11, 2013

Venrock Associates V, L.P.

By: Venrock Management V, LLC, its General Partner

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory

Venrock Partners V, L.P.

By: Venrock Partners Management V, LLC, its General Partner

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory

Venrock Entrepreneurs Fund V, L.P.

By: VEF Management V, LLC, its General Partner

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory Venrock Management V, LLC

By: /s/ David L. Stepp

Name: David L. Stepp Title: Authorized Signatory

Venrock Partners Management V, LLC

By: /s/ David L. Stepp

Name: David L. Stepp Title: Authorized Signatory

VEF Management V, LLC

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory

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EXHIBITS

A: Joint Filing Agreement

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EXHIBIT A

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, the undersigned agree to the joint filing on behalf of each of them of a statement on Schedule 13G (including amendments thereto) with respect to the Common Stock of Fate Therapeutics, Inc. and further agree that this agreement be included as an exhibit to such filing. Each party to the agreement expressly authorizes each other party to file on its behalf any and all amendments to such statement. Each party to this agreement agrees that this joint filing agreement may be signed in counterparts.

In evidence whereof, the undersigned have caused this Agreement to be executed on their behalf this 11th day of October, 2013.

Venrock Associates V, L.P.

By: Venrock Management V, LLC, its General Partner

Venrock Management V, LLC

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 Partners V, L.P.

- By: Venrock Partners Management V, LLC, its General Partner
- By: /s/ David L. Stepp

Name: David L. Stepp Title: Authorized Signatory

Venrock Entrepreneurs Fund V, L.P.

By: VEF Management V, LLC, its General Partner

By: /s/ David L. Stepp Name: David L. Stepp Title: Authorized Signatory Venrock Partners Management V, LLC

By: <u>/s/ David L. Stepp</u> Name: David L. Stepp Title: Authorized Signatory

VEF Management V, LLC

By: /s/ David L. Stepp

Name: David L. Stepp Title: Authorized Signatory

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