FIVE PRIME THERAPEUTICS INC Form SC 13G February 14, 2014

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

SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No.)1

Five Prime Therapeutics, Inc. (Name of Issuer)

Common Stock, \$0.001 par value (Title of Class of Securities)

33830X 10 4 (CUSIP Number)

February 7, 2014 (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)

1 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. 33830X 10 4

 NAME OF REPORTING PERSON
 Biotechnology Value Fund, L.P.
 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x GROUP (b) o
 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

8

Dela	aware	
NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY		0 shares
OWNED BY	6	SHARED VOTING POWER
EACH		
REPORTING		614,456
PERSON WITH	7	SOLE DISPOSITIVE POWER
		0 shares

SHARED	DISPOSITIVE	POWER

614,456

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

614,456

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

3.1%

12 TYPE OF REPORTING PERSON

PN

1	NAME OF REPORTING PERSON	
2	Biotechnology Value Fund II, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	

Delaware)	
NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY		0 shares
OWNED BY	6	SHARED VOTING POWER
EACH		
REPORTING		347,941
PERSON WITH	7	SOLE DISPOSITIVE POWER

0 shares

SHARED DISPOSITIVE POWER

347,941

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

347,941

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

1.8%

12 TYPE OF REPORTING PERSON

8

PN

1	NAME OF REPORTING PERSON	
2	Investment 10, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A	(\mathbf{a}) v
L		(a) x
	GROUP	(b) o
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION	

]	Illinois	
NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY		0 shares
OWNED BY	6	SHARED VOTING POWER
EACH		
REPORTING		173,603
PERSON WITH	7	SOLE DISPOSITIVE POWER

0 shares

SHARED DISPOSITIVE POWER

173,603

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

173,603

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

Less than 1%

12 TYPE OF REPORTING PERSON

8

1	NAME OF REPORTING PERSON	
	BVF Partners L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A	(a) x
	GROUP	(b) c
3	SEC USE ONLY	

4 CITIZENSHIP OR PLACE OF ORGANIZATION

8

	Delaware	
NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY		0 shares
OWNED BY	6	SHARED VOTING POWER
EACH		
REPORTING		1,136,000
PERSON WITH	7	SOLE DISPOSITIVE POWER

0 shares

SHARED DISPOSITIVE POWER

1,136,000

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,136,000

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.7%

12 TYPE OF REPORTING PERSON

PN, IA

BVF Inc.	1	NAME OF REPORTING PERSON	

- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x GROUP (b) o
- 3 SEC USE ONLY
- 4 CITIZENSHIP OR PLACE OF ORGANIZATION

8

Ι	Delaware	
NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY		0 shares
OWNED BY	6	SHARED VOTING POWER
EACH		
REPORTING		1,136,000
PERSON WITH	7	SOLE DISPOSITIVE POWER

0 shares

SHARED DISPOSITIVE POWER

1,136,000

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,136,000

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.7%

12 TYPE OF REPORTING PERSON

CO

1	NAME OF REPORTING PERSON	
2	Mark N. Lampert CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o

- 3 SEC USE ONLY
- 4 CITIZENSHIP OR PLACE OF ORGANIZATION

8

	United States		
NUMBER OF	5	5	SOLE VOTING POWER
SHARES			
BENEFICIALLY			0 shares
OWNED BY	e	5	SHARED VOTING POWER
EACH			
REPORTING			1,136,000
PERSON WITH	7	7	SOLE DISPOSITIVE POWER

0 shares

SHARED DISPOSITIVE POWER

1,136,000

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,136,000

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.7%

12 TYPE OF REPORTING PERSON

IN

CUSIP NO. 33830X 10 4

Item 1(a).

Name of Issuer:

Five Prime Therapeutics, Inc., a Delaware corporation (the "Issuer").

Item 1(b).

Address of Issuer's Principal Executive Offices:

Two Corporate Drive South San Francisco, California 94080

Item 2(a).	Name of Person Filing		
Item 2(b).	Address of Principal Business Office or, if None, Residence		
Item 2(c).	Citizenship		

Biotechnology Value Fund, L.P. ("BVF") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

Investment 10, L.L.C. ("ILL10") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Illinois

BVF Partners L.P. ("Partners") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

BVF Inc. 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

Item 2(d).

Title of Class of Securities:

Common stock, \$0.001 par value (the "Common Stock")

CUSIP NO. 33830X 10 4

Item 2(e).

CUSIP Number:

Not applicable

33830X 104

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

/x/

(a)

		/	x/ Not applicable.	
	(a)	//	Broker or dealer registered under Section 15 of the Exchange Act.	
	(b)	//	Bank as defined in Section $3(a)(6)$ of the Exchange Act.	
	(c)	//	Insurance company as defined in Section $3(a)(19)$ of the Exchange Act.	
(d)	1,	/ Invest	ment company registered under Section 8 of the Investment Company Act.	
	(e)	//	An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).	
(f)	//	An employee	benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).	
(g)	//	A parent hol	ding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).	
(h)	//	A savings	association as defined in Section 3(b) of the Federal Deposit Insurance Act.	
 (i)//A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act. 				

- (j) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
- (k)//Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution: _____

Item 4.

Ownership

Amount beneficially owned:

As of the close of business on the date hereof, (i) BVF beneficially owned 614,456 shares of Common Stock, (ii) BVF2 beneficially owned 347,941 shares of Common Stock, and (iii) ILL10 beneficially owned 173,603 shares of Common Stock.

Partners, as the general partner of BVF and BVF2 and the investment adviser of ILL10 may be deemed to beneficially own 1,136,000 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2 and ILL10.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 1,136,000 shares of Common Stock beneficially owned by Partners.

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Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 1,136,000 shares of Common Stock beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any shares of Common Stock owned by another Reporting Person. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2 and ILL10 and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b)

Percent of class:

The following percentages are based on 19,818,008 shares of Common Stock outstanding as of February 10, 2014, as disclosed in the Issuer's Prospectus filed pursuant to Rule 424(b)(4) with the Securities and Exchange Commission on February 7, 2014.

As of the close of business on the date hereof, (i) BVF beneficially owned approximately 3.1% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 1.8% of the outstanding shares of Common Stock, (iii) ILL10 beneficially owned less than 1% of the outstanding shares of Common Stock, and (iv) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 5.7% of the outstanding shares of Common Stock.

(c)	Number of shares as to which such person has:		
(i)	Sole power to vote or to direct the vote		
	See Cover Pages Items 5-9.		
(ii)	Shared power to vote or to direct the vote		
	See Cover Pages Items 5-9.		
(iii)	Sole power to dispose or to direct the disposition of		
	See Cover Pages Items 5-9.		
(iv)	Shared power to dispose or to direct the disposition of		
	See Cover Pages Items 5-9.		
	Ownership of Five Percent or Less of a Class.		

Not Applicable.

Item 5.

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

Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, BVF2 and ILL10.

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Item Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the ParentHolding Company or Control Person.

Not Applicable.

Item 8.	Identification and Classification of Members of the Group.		
See Exhibit 99.1.			
Item 9.	Notice of Dissolution of Group.		
Not Applicable.			
Item 10.	Certifications.		

By signing below each of the undersigned certifies that, to the best of its 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 his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2014

BIOTECHNOLOGY VALUE FUND, L.P.

By:	BVF Partners L.P., its general partner	
By:	BVF Inc., its general partner	
D.,,	/s/ Mark N. Lampart	

By: /s/ Mark N. Lampert Mark N. Lampert President

BIOTECHNOLOGY VALUE FUND II, L.P. BVF PARTNERS L.P.

Mark N. Lampert

President

By:	BVF Partners L.P., its general partner	By:	BVF Inc., its general partner
By:	BVF Inc., its general partner	By:	/s/ Mark N. Lampert
By:	/s/ Mark N. Lampert Mark N. Lampert President		Mark N. Lampert President
		BVF INC.	
INVESTMENT 1	0, L.L.C.	By:	/s/ Mark N. Lampert Mark N. Lampert
By:	BVF Partners L.P., its investment manager		President
By:	BVF Inc., its general partner		
By:	/s/ Mark N. Lampert		

/s/ Mark N. Lampert

MARK N. LAMPERT