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. 2)1

Blueprint Medicines Corporation
(Name of Issuer)
Common Stock, \$0.001 par value
(Title of Class of Securities)
09627Y109
(CUSIP Number)
April 29, 2016

(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*).

1	NAME OF REPOR	TING PERSON				
		Biotechnology Value Fund, L.P.				
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o			
3	SEC USE ONLY					
4	CITIZENSHIP OR	PLACE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING						
PERSON WITH		1,342,455				
	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		1,342,455				
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	1,342,455					
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)				
	4.9%					
12	TYPE OF REPORT	TING PERSON				
	PN					
	TTA					

1	NAME OF REPORTI	NG PERSON		
	Biotechnology Value Fund II, L.P.			
2	CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) x	
			(b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH REPORTING	6	SHARED VOTING POWER		
PERSON WITH		701.000		
FERSON WITH	7	791,000 SOLE DISPOSITIVE POWER		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		791,000		
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	791,000			
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	Π	
10		A COLORID AND ON IN NOW (5) EACEOPED CENTRIC DIANED		
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)		
	2.9%			
12	TYPE OF REPORTIN	NG PERSON		
L	PN			

1		NO REDGON			
	NAME OF REPORTING PERSON				
	Dista sharele za Value Tardine Fund OC I D				
2		Biotechnology Value Trading Fund OS LP CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x			
2	CHECK THE APPRC	JPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o		
3	SEC USE ONLY		(0) 0		
5	SEC USE ONLI				
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION			
т Т					
	Cayman Islands				
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING					
PERSON WITH		170,320			
	7	SOLE DISPOSITIVE POWER			
		0 shares			
	0	0 shares			
	8	SHARED DISPOSITIVE POWER			
		170,320			
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	170,320				
10	CHECK BOX IF THE	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)			
	T 1 1 1 1 1				
	Less than 1%				
12	TYPE OF REPORTIN	NG PERSON			
	DNI				
L	PN				

1	NAME OF DEPOPT					
1	NAME OF REPORTING PERSON					
	BVF Partners OS Ltd.					
2						
2	CHECK THE APPRO	JPRIALE DUA IF A MEMDER OF A GROUP	(a) x (b) o			
3	SEC USE ONLY		(0) 0			
J	SEC USE ONLI					
4	CITIZENSHIP OR P	LACE OF ORGANIZATION				
4		LACE OF ORDANIZATION				
	Cayman Islands					
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING						
PERSON WITH		170,320				
	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		170.220				
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	170 220					
10	170,320	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
10	CHECK DUA IF I HI	E AGGREGALE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
11	TERCENT OF CLAS	$\frac{1}{10000000000000000000000000000000000$				
	Less than 1%					
12	TYPE OF REPORTIN	JG PERSON				
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1	NAME OF REPORTING PERSON					
		BVF Partners L.P.				
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) x			
			(b) o			
3	SEC USE ONLY					
4	CITIZENSHIP OR P	LACE OF ORGANIZATION				
	Delaware					
NUMBER OF	5	SOLE VOTING POWER				
SHARES	J	SOLE VOTING FOWER				
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING	, i i i i i i i i i i i i i i i i i i i					
PERSON WITH		2,840,251				
	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		2,840,251				
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2 0 40 251					
10	2,840,251					
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
11	PERCENT OF CLAS	DO KERKEDENTED DI AMOUNT IN KOW (9)				
	10.4%					
12	TYPE OF REPORTIN	NG PERSON				
	PN, IA					
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1					
1	NAME OF REPORTING PERSON				
	BVF Inc.				
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) x		
			(b) o		
3	SEC USE ONLY				
4	CITIZENCUID OD D				
4	CITIZENSHIP OR P	LACE OF ORGANIZATION			
	Delaware				
NUMBER OF	5	SOLE VOTING POWER			
SHARES	J	SOLE VOTING FOWER			
BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING	0				
PERSON WITH		2.840.251			
	7	SOLE DISPOSITIVE POWER			
		0 shares			
	8	SHARED DISPOSITIVE POWER			
		2,840,251			
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	2,840,251				
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)			
	10.4%				
12	TYPE OF REPORTI				
12	I I PE OF REPORT	ING PERSOIN			
	СО				
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1	NAME OF REPORTING PERSON					
		Mark N. Lampert				
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) x			
			(b) o			
3	SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF ORGANIZATION				
	United States					
NUMBER OF	5	SOLE VOTING POWER				
SHARES	5	SOLE VOTING POWER				
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING	Ū					
PERSON WITH		2,840,251				
	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		2,840,251				
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2,840,251					
10	CHECK BOX IF THI	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)				
	10.4%					
12	TYPE OF REPORTIN	IC DEDSON				
12	I I PE OF KEPORIII	NG LEVOON				
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L	11.1					

CUSIP NO. 09627Y109

Item 1(a).	Name of Issuer:
	Blueprint Medicines Corporation, a Delaware corporation (the "Issuer").
Item 1(b).	Address of Issuer's Principal Executive Offices:
	38 Sidney Street, Suite 200 Cambridge, Massachusetts 02139
Item 2(a). Item 2(b). Item 2(c).	Name of Person Filing Address of Principal Business Office or, if None, Residence Citizenship
	Biotechnology Value Fund, L.P. ("BVF") 1 Sansome Street, 30 th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Fund II, L.P. ("BVF2") 1 Sansome Street, 30 th Floor San Francisco, California 94104
	Citizenship: Delaware
	Biotechnology Value Trading Fund OS LP ("Trading Fund OS") PO Box 309 Ugland House
	Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands
	BVF Partners OS Ltd. ("Partners OS") PO Box 309 Ugland House
	Grand Cayman, KY1-1104 Cayman Islands
	Citizenship: Cayman Islands
	BVF Partners L.P. ("Partners") 1 Sansome Street, 30th Floor
	San Francisco, California 94104 Citizenship: Delaware
	BVF Inc.
	1 Sansome Street, 30 th Floor San Francisco, California 94104
	Citizenship: Delaware
	Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30 th Floor San Francisco, California 94104 Citizenship: United States
	Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."
	and concerned to the a reporting report and concerned, as the reporting reports

Item 2(d).	Title of Class of Securities:					
	Common Stock, \$0.001 par value (the "Common Stock")					
Item 2(e).	CUSIF	P Number				
	09627	Y109				
Item 3.	If This	Stateme	nt is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:			
	/x/	Not ap	plicable.			
	(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)	//	Investment 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 holding 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.	Owner	ship				
(a)	Amount beneficially owned:					

(a) Amount beneficially owned:

As of the close of business on May 3, 2016 (i) BVF beneficially owned 1,342,455 shares of Common Stock, (ii) BVF2 beneficially owned 791,000 shares of Common Stock, and (iii) Trading Fund OS beneficially owned 170,320 shares of Common Stock.

Partners OS as the general partner of Trading Fund OS may be deemed to beneficially own the 170,320 shares of Common Stock beneficially owned by Trading Fund OS.

Partners, as the general partner of BVF, BVF2, the investment manager of Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 2,840,251 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and certain Partners management accounts (the "Partners Management Accounts"), including 536,476 shares of Common Stock held in the Partners Management Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 2,840,251 shares of Common Stock beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 2,840,251 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. Partners OS disclaims beneficial ownership of the shares of Common Stock beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and the Partners Management Accounts, 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 27,237,950 shares of Common Stock outstanding as of April 25, 2016, as disclosed in the Issuer's Definitive Proxy Statement filed on Schedule 14A with the Securities and Exchange Commission on April 28, 2016.

As of the close of business on May 3, 2016 (i) BVF beneficially owned approximately 4.9% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 2.9% of the outstanding shares of Common Stock, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding shares of Common Stock (iv) Partners OS may be deemed to beneficially own less than 1% of the outstanding shares of Common Stock, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 10.4% of the outstanding shares of Common Stock (approximately 2.0% of which is held in the Partners Management Accounts).

- (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.

CUSIP NO. 09627Y109

(i	iv)	Shared power to dispose or to direct the disposition of
		See Cover Pages Items 5-9.
Item 5.		Ownership of Five Percent or Less of a Class.
		Not Applicable.
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, Trading Fund OS, and the Partners Management Accounts.
Item 7.		Identification and Classification of the Subsidiary That 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.
		See Exhibit 99.1 to Amendment No. 1 to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on February 16, 2016.
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.

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.

By:

Dated: May 3, 2016

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner By: BVF Inc., its general partner

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

/s/ Mark N. Lampert Mark N. Lampert President

BIOTECHNOLOGY VALUE FUND II, L.P.

By:BVF Partners L.P., its general partnerBy:BVF Inc., its general partner

MARK N. LAMPERT

/s/ Mark N. Lampert

BVF PARTNERS L.P.

By:

By: BVF Inc., its general partner

/s/ Mark N. Lampert Mark N. Lampert President

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

BVF PARTNERS OS LTD.

- By: BVF Partners L.P., its sole member
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

- By: BVF Partners L.P., its investment manager
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert

President