UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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UNDER THE SECURITIES EXCHANGE ACT OF 1934 (Amendment No. 3)*

Blueprint Medicines Corporation

(Name of Issuer

COMMON STOCK, \$0.001 PAR VALUE PER SHARE

(Title of Class of Securities)

09627Y109 (CUSIP Number)

<u>December 31, 2018</u> (Date of Event Which Requires Filing of this Statement)

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

☐ Rule 13d-1(b)

☐ Rule 13d-1(c)

⊠ 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.	NAMES	OF R	EPORTING PERSONS
	Third F	Rock	a Ventures II, L.P.
2.	CHECK 7	ГНЕ	APPROPRIATE BOX IF A MEMBER OF A GROUP
	(a) □	(b)	
3.	SEC USE	ON	LY
4.	CITIZEN	SHII	P OR PLACE OF ORGANIZATION
	D I		
	Delav		
		5.	SOLE VOTING POWER
			0
_	BER OF	C	
_	ARES	6.	SHARED VOTING POWER
	FICIALLY		878,875
OWNED BY 878,875 EACH 7. SOLE DISPOSITIVE POWER			
	ORTING	/.	SOLE DISTOSTITY ETOWER
PEI	RSON		0
W	TTH	8.	SHARED DISPOSITIVE POWER
		0.	
			878,875
9.	AGGREC	SATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	878,875		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □		
11.	PERCEN	T OF	CLASS REPRESENTED BY AMOUNT IN ROW 9
	- 00 / //·		
	2.0% (1)		
12.	TYPE OF	RE	PORTING PERSON
	DNI		

⁽¹⁾ The percent of class was calculated based on 43,950,375 shares of common stock issued and outstanding as of October 26, 2018, as disclosed in the Issuer's Prospectus Supplement filed with the Securities and Exchange Commission on October 30, 2018.

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1.	NAMES	OF RE	PORTING PERSONS
			Ventures GP II, L.P.
2.			PPROPRIATE BOX IF A MEMBER OF A GROUP
	(a) □	(b) [2	
3.	SEC USE	ONLY	Y
4.	CITIZEN	SHIP (OR PLACE OF ORGANIZATION
	Delav		
		5.	SOLE VOTING POWER
NUM	BER OF		0
_	ARES	6.	SHARED VOTING POWER
BENEFICIALLY		070.075	
OWNED BY 878,875 EACH 7. SOLE DISPOSITIVE POWER		8/8,8/5 SOLE DISPOSITIVE POWER	
	RTING	/.	SOLE DISPOSITIVE FOWER
	RSON	(0
W	TTH	8.	SHARED DISPOSITIVE POWER
			878,875
9.	AGGREC	SATE A	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	878,875		
10.			F THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □
11.	PERCEN	T OF (CLASS REPRESENTED BY AMOUNT IN ROW 9
	2.0% (1)	
12.	TYPE OF	REPO	DRTING PERSON
	PN		
	TIN		

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		0

			-
1.	NAMES OF REPORTING PERSONS		
	TRV G		
2.			APPROPRIATE BOX IF A MEMBER OF A GROUP
	(a) □	(b)	
3.	SEC USE	ON	LY
4.	CITIZEN	SHII	OR PLACE OF ORGANIZATION
	Delav	vare	
	•	5.	SOLE VOTING POWER
NHM	BER OF		0
	ARES	6.	SHARED VOTING POWER
BENEFICIALLY			
	IED BY		878,875
EACH 7. SOLE DISPOSITIVE POWER REPORTING		SOLE DISPOSITIVE POWER	
	RSON		0
W	'ITH	8.	SHARED DISPOSITIVE POWER
			878,875
9.	ACCDEC	ስጥር	6/6,6/5 E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
Э.	AGGREC)/XIE	AMIOUNI DENEFICIALLI OWNED DI EACH REFORTING FERSON
	878,875	ı	
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □		
11.	PERCEN	T OF	CLASS REPRESENTED BY AMOUNT IN ROW 9
	2.0% (1)	
12.	,		PORTING PERSON
	00		

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1.	NAMES OF REPORTING PERSONS			
	Mark L			
2.			APPROPRIATE BOX IF A MEMBER OF A GROUP	
	(a) □	(b)		
3.	SEC USE	ON	LY	
4.	CITIZEN	SHII	OR PLACE OF ORGANIZATION	
	Unite	d St		
		5.	SOLE VOTING POWER	
NUM	BER OF		143,290	
	ARES	6.	SHARED VOTING POWER	
BENEFICIALLY		050 055		
OWNED BY EACH		7	878,875 SOLE DISPOSITIVE POWER	
	ORTING	7.	SOLE DISPOSITIVE POWER	
PEI	RSON		143,290	
W	TTH	8.	SHARED DISPOSITIVE POWER	
			878,875	
9.	AGGREC	SATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,022,16			
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □			
11.	PERCEN	T OF	CLASS REPRESENTED BY AMOUNT IN ROW 9	
	2.3% (1))		
12.	TYPE OF	REI	PORTING PERSON	
	T3.T			
	IN			

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1.	NAMES OF REPORTING PERSONS			
	Kevin P			
2.			APPROPRIATE BOX IF A MEMBER OF A GROUP	
	(a) □	(b)		
3.	SEC USE	ON	LY	
4.	CITIZEN	SHII	P OR PLACE OF ORGANIZATION	
	Unite	d St		
		5.	SOLE VOTING POWER	
NUM	BER OF		33,398	
	ARES	6.	SHARED VOTING POWER	
	BENEFICIALLY OWNED BY		878,875	
	ACH	7.	SOLE DISPOSITIVE POWER	
	ORTING			
	RSON 'ITH		33,398	
		8.	SHARED DISPOSITIVE POWER	
			878,875	
9.	AGGREC	SATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	912,273			
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □			
11.	DEDCEN	ТОГ	CLASS REPRESENTED BY AMOUNT IN ROW 9	
11,	LEIXCEN	1 01	CLASS REI RESENTED DI AMIOUNI IIN ROW 3	
	2.1% (1)		
12.	TYPE OF	REI	PORTING PERSON	
	IN			
	TIA			

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1.	NAMES OF REPORTING PERSONS		
	Robert		
2.		THE (b)	APPROPRIATE BOX IF A MEMBER OF A GROUP
	(a) □	(0)	
3.	SEC USE	ON	LY
4.	CITIZEN	SHII	P OR PLACE OF ORGANIZATION
	Unite	d St	ates
		5.	SOLE VOTING POWER
NUM	BER OF		84,378
SH	ARES	6.	SHARED VOTING POWER
BENEFICIALLY OWNED BY 878,875		878,875	
	ACH	7.	SOLE DISPOSITIVE POWER
	ORTING RSON		84,378
W	'ITH	8.	SHARED DISPOSITIVE POWER
			070 075
9.	AGGREC	ATE	878,875 E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
J.	riconic		
	963,253		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □		
11.	PERCEN	T OI	CLASS REPRESENTED BY AMOUNT IN ROW 9
	2.2% (1)	
12.	TYPE OF	RE	PORTING PERSON
	IN		
	TT 4		

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Item 1.		Issuer				
	(a)	Name o	of Issuer:			
		Bluepri	nt Medicines Corporation (the " Issuer ")			
	(b)	Address	s of Issuer's Principal Executive Offices:			
			ley Street dge, MA 02139			
Item 2.		Filing Person				
	(a) – (c)	Name of Persons Filing; Address; Citizenship:				
		(i)	Third Rock Ventures II, L.P. ("TRV II");			
		(ii)	Third Rock Ventures GP II, L.P. ("TRV GP II"), which is the sole general partner of TRV II;			
		(iii	i) TRV GP II, LLC ("TRV GP II LLC"), which is the sole general partner of TRV GP II;			
		(iv	y) Mark Levin (" Levin "), a managing member of TRV GP II LLC;			
		(v)	Kevin P. Starr ("Starr"), a managing member of TRV GP II LLC; and			
		(vi	Robert I. Tepper (" Tepper ," and collectively with TRV II, TRV GP II, TRV GP II LLC, Levin and Persons "), a managing member of TRV GP II LLC.	Starr, the "Reporting		
		The address of the principal business office of each of the Reporting Persons is Third Rock Ventures, LLC, 29 Newbury S Floor, Boston, MA 02116.				
			TRV II and TRV GP II is a Delaware limited partnership. TRV GP II LLC is a Delaware limited liaband Starr are United States citizens.	oility company. Levin,		
	(d)	Title of	Class of Securities:			
		Commo	on stock, \$0.001 par value per share, (the "Common Stock")			
	(e)	CUSIP Number:				
		09627Y	7109			
Item 3.	. If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:					
	(a)		Broker or dealer registered under Section 15 of the Act;			
	(b)		Bank as defined in Section 3(a)(6) of the Act;			
	(c)		Insurance company as defined in Section 3(a)(19) of the Act;			
	(d)		Investment company registered under Section 8 of the Investment Company Act of 1940;			
	(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 associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1	813);		
	(i)		A church plan that is excluded from the definition of an investment company under section $3(c)(14)$ Company Act of 1940;	of the Investment		
	(j)		A non-U.S. institution in accordance with Rule 240.13d-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 240.13d-1(b)(1)(ii)(J), please specify the type of institution:	nce with		

If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution:

Item 4. Ownership.

- (a) and (b) Amount beneficially owned:
 - TRV II directly owns 878,875 shares of Common Stock (the "Shares"), which represents approximately 2.0% of the outstanding shares of Common Stock.
 - (ii) TRV GP II is the general partner of TRV II and may be deemed to beneficially own the Shares.
 - (iii) TRV GP II LLC is the general partner of TRV GP II and may be deemed to beneficially own the Shares.
 - (iv) As a managing member of TRV GP II LLC, Levin may be deemed to beneficially own the Shares. Additionally, as of December 31, 2018, Levin directly owns 143,290 shares of Common Stock. As a result, Levin may be deemed to beneficially own an aggregate of 1,022,165 shares of Common Stock, which represents approximately 2.3% of the outstanding shares of Common Stock.
 - (v) As a managing member of TRV GP II LLC, Tepper may be deemed to beneficially own the Shares. Additionally, as of December 31, 2018, Tepper directly owns 84,378 shares of Common Stock. As a result, Tepper may be deemed to beneficially own an aggregate of 963,253 shares of Common Stock, which represents approximately 2.2% of the outstanding shares of Common Stock.
 - (vi) As a managing member of TRV GP II LLC, Starr may be deemed to beneficially own the Shares. Additionally, as of December 31, 2018, Starr directly owns 33,398 shares of Common Stock. As a result, Starr may be deemed to beneficially own an aggregate of 912,273 shares of Common Stock, which represents approximately 2.1% of the outstanding shares of Common Stock.
- (c) Number of shares as to which such person has:

	Nun	nber of Shares of Common Stock			
Reporting Person	(i)	(ii)	(iii)	(iv)	
TRV II	0	878,875	0	878,875	
TRV GP II	0	878,875	0	878,875	
TRV GP II LLC	0	878,875	0	878,875	
Levin	143,290	878,875	143,290	878,875	
Starr	33,398	878,875	33,398	878,875	
Tepper	84,378	878,875	84,378	878,875	

- (i) Sole power to vote or direct the vote
- (ii) Shared power to vote or to direct the vote
- (iii) Sole power to dispose or to direct the disposition of
- (iv) Shared power to dispose or to direct the disposition of

The percent of class was calculated based on 43,950,375 shares of common stock issued and outstanding as of October 26, 2018, as disclosed in the Issuer's Prospectus Supplement filed with the Securities and Exchange Commission on October 30, 2018.

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 persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following.

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 Group.

Not applicable.

Item 10. Certification.

Not applicable.

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.

Date: February 13, 2019

THIRD ROCK VENTURES II, L.P.

By: THIRD ROCK VENTURES GP II, L.P.,

General Partner

By: TRV GP II, LLC, General Partner

By: /s/ Kevin Gillis

Kevin Gillis

Chief Financial Officer

THIRD ROCK VENTURES GP II, L.P.

By: TRV GP II, LLC, General Partner

By: /s/ Kevin Gillis

Kevin Gillis

Chief Financial Officer

TRV GP II, LLC

By: /s/ Kevin Gillis

Kevin Gillis

Chief Financial Officer

MARK LEVIN

/s/ Kevin Gillis, As attorney-in-fact

Mark Levin

KEVIN P. STARR

/s/ Kevin Gillis, As attorney-in-fact

Kevin P. Starr

ROBERT I. TEPPER

/s/ Kevin Gillis, As attorney-in-fact

Robert I. Tepper

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Kevin Gillis his true and lawful attorney-in-fact, with full power of substitution, to sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his capacity as a direct or indirect general partner, director, officer, member or manager of any partnership, corporation or limited liability company, pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the Financial Industry Regulatory Authority, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate, fully to all intents and purposes as he might or could do in person, thereby ratifying and confirming all that said attorney-in-fact, or his substitutes, may lawfully do or cause to be done by virtue hereof. Each of the undersigned may execute this power of attorney in separate counterparts, and each counterpart shall be deemed to be an original instrument. This agreement shall be effective as to each of the undersigned as of the date signed by that signatory.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 16th day of January, 2014.

/s/ Mark Levin

Mark Levin

/s/ Kevin P. Starr

Kevin P. Starr

/s/ Robert I. Tepper

Robert I. Tepper

Joint Filing Agreement

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G is filed on behalf of each of the undersigned and that all subsequent amendments to this statement on Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint filing statements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning him, her or it contained herein, but shall not be responsible for the completeness and accuracy of the information concerning the other entities or persons, except to the extent that he, she or it knows or has reason to believe that such information is inaccurate.

Dated: February 13, 2019

THIRD ROCK VENTURES II, L.P.

By: THIRD ROCK VENTURES GP II, L.P., General Partner

By: TRV GP II, LLC, General Partner

By: /s/ Kevin Gillis

Kevin Gillis

Chief Financial Officer

THIRD ROCK VENTURES GP II, L.P.

By: TRV GP II, LLC, General Partner

By: /s/ Kevin Gillis

Kevin Gillis

Chief Financial Officer

TRV GP II, LLC

By: /s/ Kevin Gillis

Kevin Gillis

Chief Financial Officer

MARK LEVIN

/s/ Kevin Gillis, As attorney-in-fact

Mark Levin

KEVIN P. STARR

/s/ Kevin Gillis, As attorney-in-fact

Kevin P. Starr

ROBERT I. TEPPER

/s/ Kevin Gillis, As attorney-in-fact

Robert I. Tepper