UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

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

Magenta Therapeutics, Inc.

(Name of Issuer)

COMMON STOCK, \$0.0001 PAR VALUE PER SHARE (Title of Class of Securities)

> 55910K108 (CUSIP Number)

December 31, 2018 (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)

 \Box 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).

CUSIP No. 55910K108

SCHEDULE 13G

1.	NAMES OF REPORTING PERSONS Third Rock Ventures IV, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP							
2.								
2.	$(a) \square$							
	(u) L							
3.	SEC USE ONLY							
4.	CITIZEN	SHI	P OR PLACE OF ORGANIZATION					
	Delaware							
		5.	SOLE VOTING POWER					
	NUMBER OF		0					
	ARES	6.	SHARED VOTING POWER					
	FICIALLY							
	NED BY		8,008,204					
	ACH DRTING	7.	SOLE DISPOSITIVE POWER					
	RSON		0					
W	/ITH	8.	SHARED DISPOSITIVE POWER					
			8,008,204					
9.	AGGREO	GATE	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	8,008,20)4						
10.			IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11.	PERCEN	T OF	F CLASS REPRESENTED BY AMOUNT IN ROW 9					
	24.2% (1)							
12.	TYPE OF REPORTING PERSON							
	PN							
L								

(1) The percent of class was calculated based on 33,151,539 shares of common stock issued and outstanding as of October 31, 2018, as disclosed in the Issuer's Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

CUSIP No. 55910K108			SCHEDULE 13G	Page 3 of 12 Pages			
1.	NAMES OF REPORTING PERSONS						
	Third Rock Ventures GP IV, L.P.						
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP						
		(a) \Box (b) \boxtimes					
3.	SEC USE	ONI	LY				
4.	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Delav	Delaware					
		5.	SOLE VOTING POWER				
NIIIMI	NUMBER OF		0				
SHA	ARES	6.	SHARED VOTING POWER				
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	ACH DRTING	7.	SOLE DISPOSITIVE POWER				
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W	ITH	8.	SHARED DISPOSITIVE POWER				
			8,008,204				
9.	AGGREC	ATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	8,008,204						
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
12.	24.2% (TYPE OF		PORTING PERSON				
	PN						

CUSIP No.	55910K108
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SCHEDULE 13G

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1.	NAMES OF REPORTING PERSONS						
	TRV GP IV, LLC						
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □ (b) ⊠						
3.	SEC USE ONLY						
4.	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Delaware						
		5.	SOLE VOTING POWER				
NUM	NUMBER OF SHARES BENEFICIALLY						
-			SHARED VOTING POWER				
	NED BY ACH	7.	8,008,204 SOLE DISPOSITIVE POWER				
REPO	ORTING	7.					
	RSON /ITH	8.	0 SHARED DISPOSITIVE POWER				
9.	AGGREO	GATE	8,008,204 E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	8 008 20	14					
10.	8,008,204 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
	74 7% (1)					
12.			PORTING PERSON				
	00						
12.	24.2% (TYPE OF OO		PORTING PERSON				

CUSIP No. 55910K108			SCHEDULE 13G	Page 5 of 12 Pages				
Item 1.	Item 1. Issuer							
	(a)	Name	of Issuer:					
		Magen	ta Therapeutics, Inc. (the " Issuer ")					
	(b)	Addres	s of Issuer's Principal Executive Offices:					
			chnology Square idge, Massachusetts					
Item 2.		Filing	Person					
	(a) – (C)	Name	of Persons Filing; Address; Citizenship:					
		(i	Third Rock Ventures IV, L.P. ("TRV IV");					
		(i) Third Rock Ventures GP IV, L.P. ("TRV GP IV"), which is the sole general partner of TRV I	V; and				
		(i	i) TRV GP IV, LLC (" TRV GP IV LLC "), which is the sole general partner of TRV GP IV.					
		The address of the principal business office of each of the Reporting Persons is Third Rock Ventures, LLC, 29 New Floor, Boston, MA 02116.						
		Each o	f TRV IV and TRV GP IV is a Delaware limited partnership. TRV GP IV LLC is a Delaware lin	nited liability company.				
	(d)	Title o	Class of Securities:					
		Comm	on stock, \$0.001 par value per share, (the "Common Stock")					
	(e)	CUSIF	CUSIP Number:					
		55910K108						
Item 3.	If this	:						
	(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	5.C. 1813);				
	(i)		A church plan that is excluded from the definition of an investment company under section 3(Company Act of 1940;	c)(14) of the Investment				
	(j)		A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J);					
	()			1				

(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:

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:

- (i) TRV IV directly owns 8,008,204 shares of Common Stock (the "**Shares**"), which represents approximately 24.2% of the outstanding shares of Common Stock.
- (ii) TRV GP IV is the general partner of TRV IV and may be deemed to beneficially own the Shares.
- (iii) TRV GP IV LLC is the general partner of TRV GP IV and may be deemed to beneficially own the Shares.
- (c) Number of shares as to which such person has:

		Number of Shares of Common Stock			
Reporting Person	(i)	(ii)	(iii)	(iv)	
TRV IV	0	8,008,204	0	8,008,204	
TRV GP IV	0	8,008,204	0	8,008,204	
TRV GP IV LLC	0	8,008,204	0	8,008,204	

- (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 33,151,539 shares of common stock issued and outstanding as of October 31, 2018, as disclosed in the Issuer's Form 10-Q filed with the Securities and Exchange Commission on November 8, 2018.

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.

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.

SCHEDULE 13G

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 IV, L.P.

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

By: TRV GP IV, LLC, General Partner

By: /s/ Kevin Gillis Kevin Gillis Chief Financial Officer

THIRD ROCK VENTURES GP IV, L.P.

By: TRV GP IV, LLC, General Partner

By: /s/ Kevin Gillis Kevin Gillis Chief Financial Officer

TRV GP IV, LLC

By: /s/ Kevin Gillis Kevin Gillis Chief Financial Officer

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 IV, L.P.

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

By: TRV GP IV, LLC, General Partner

By: /s/ Kevin Gillis

Kevin Gillis Chief Financial Officer

THIRD ROCK VENTURES GP IV, L.P.

By: TRV GP IV, LLC, General Partner

By: /s/ Kevin Gillis Kevin Gillis Chief Financial Officer

TRV GP IV, LLC

By: /s/ Kevin Gillis Kevin Gillis Chief Financial Officer