(Last)

(Street)

(City)

(Last)

CAMBRIDGE

C/O MPM CAPITAL 450 KENDALL STREET

(First)

MA

(State)

(First)

1. Name and Address of Reporting Person*

MPM SunStates Fund GP LLC

FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL

OMB Number: 3235-0104

Estimated average burden
hours per response: 0.5

			SECURITIES			ll.	per response: 0.5	
			n 16(a) of the Securities Exchange of the Investment Company Act of 1					
1. Name and Address of Reporting Person* MPM SunStates Fund, L.P.	I Requiring Statement		3. Issuer Name and Ticker or Trading Symbol TCR2 THERAPEUTICS INC. [TCRR]					
(Last) (First) (Middle) C/O MPM CAPITAL 450 KENDALL STREET			Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner Officer (give title Other (specify			If Amendment, Date of Original Filed (Month/Day/Year) Individual or Joint/Group Filing (Check		
(Street) CAMBRIDGE MA 02142			below) below)			Form filed	ole Line) Form filed by One Reporting Person Form filed by More than One Reporting Person	
(City) (State) (Zip)								
1. Title of Security (Instr. 4)	Table I - I	Non-Deriva	ative Securities Beneficial 2. Amount of Securities	3. Ownersh	nin A N	ature of Indire	ct Beneficial Ownership	
1. The Or Security (Instr. 4)			Beneficially Owned (Instr. 4)	Form: Direct (Instr. 5)	cṫ (D) (Ins	tr. 5)	et Benencial Ownership	
Common Stock			195,902	I	See	footnote ⁽¹⁾⁽²⁾		
			ve Securities Beneficially rants, options, convertible		s)			
1. Title of Derivative Security (Instr. 4)	2. Date Exc Expiration (Month/Da		3. Title and Amount of Securiti Underlying Derivative Security		4. Conversion	e Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
	Date Exercisabl	Expiration e Date	Title	Amount or Number of Shares	Derivative c	Direct (D) or Indirect (I) (Instr. 5)		
Series A Preferred Stock	(3)	(3)	Common Stock	2,825,396	0.00(3)	I	See footnote ⁽²⁾⁽⁴⁾	
Series B Preferred Stock	(3)	(3)	Common Stock	322,901	0.00(3)	I	See footnote ⁽²⁾⁽⁵⁾	
Common Stock Warrant (Right to Buy)	12/13/2016	12/12/2026	Common Stock	42,761	0.74	I	See footnote ⁽²⁾⁽⁶⁾	
Common Stock Warrant (Right to Buy)	12/06/2017	12/05/2027	Common Stock	135,508	0.74	I	See footnote ⁽²⁾⁽⁶⁾	
1. Name and Address of Reporting Person* MPM SunStates Fund, L.P.								
(Last) (First) C/O MPM CAPITAL 450 KENDALL STREET	(Middle)							
(Street) CAMBRIDGE MA	02142							
(City) (State)	(Zip)							
1. Name and Address of Reporting Person* MPM Asset Management Investor Fund LLC	ors SunStates							

(Middle)

02142

(Zip)

(Middle)

C/O MPM CAPIT 450 KENDALL S'							
(Street) CAMBRIDGE	MA	02142					
(City)	(State)	(Zip)					
1. Name and Address of Reporting Person* MPM SunStates GP Managing Member LLC							
(Last)	(First)	(Middle)					
MPM CAPITAL							
450 KENDALL STREET							
(Street) CAMBRIDGE	MA	02142					
(City)	(State)	(Zip)					

Explanation of Responses:

- 1. The shares are held by MPM Asset Management LLC ("AM LLC"). Luke Evnin and Anbsert Gadicke are the members of AM LLC.
- 2. Each Reporting Person disclaims beneficial ownership of the securities except to the extent of his or its pecuniary interest therein.
- 3. Each share of Series A Preferred Stock and Series B Preferred Stock is convertible into shares of the Issuer's Common Stock on a 6.1938:1 basis. Upon the closing of the Issuer's initial public offering, all shares of Series A Preferred Stock and Series B Preferred Stock will convert into shares of Common Stock of the Issuer. The Series A Preferred Stock and Series B Preferred Stock have no expiration dates.
- 4. The shares are held as follows: 2,195,681 by MPM BioVentures 2014, L.P. ("BV 2014"), 146,447 by MPM BioVentures 2014(B), L.P. ("BV 2014(B)"), 79,644 by MPM Asset Management Investors BV2014 LLC ("AM BV2014"), 351,155 by MPM Sunstates Fund, L.P. ("MPM SunStates") and 52,469 by MPM Asset Management Investors Sunstates Fund LLC ("AM SunStates"). MPM BioVentures 2014 GP LLC and MPM BioVentures 2014 LLC ("BV LLC") are the direct and indirect general partners of BV 2014 and BV 2014(B). MPM SunStates Fund GP LLC and MPM SunStates GP Managing Member LLC ("SunStates GP") are the direct and indirect general partners of MPM SunStates. Luke Evnin, Ansbert Gadicke and Todd Foley are the members of BV LLC and Ansbert Gadicke is a member of SunStates GP.
- $5. The shares are held as follows: 256,163 \ by \ BV \ 2014, 17,085 \ by \ BV \ 2014(B), 9,291 \ by \ AM \ BV \ 2014, 35,115 \ by \ MPM \ SunStates \ and 5,247 \ by \ AM \ SunStates.$
- 6. The warrants are held by AM LLC.

Remarks:

See Form 3 for MPM BioVentures 2014, L.P for additional members of this joint filing.

/s/ Ansbert Gadicke, member	
of MPM Sunstates GP	
Managing Member LLC, the	
managing member of MPM	02/13/2019
SunStates Fund GP LLC, the	
general partner of MPM	
SunStates Fund, L.P.	
/s/ Howard Rubin, director of	
MPM Asset Management	02/13/2019
Investors SunStates Fund LLC	
/s/ Ansbert Gadicke, member	
of MPM SunStates GP	
Managing Member LLC, the	02/13/2019
managing member of MPM	
SunStates Fund GP LLC	
/s/ Ansbert Gadicke, member	
of MPM SunStates GP	02/13/2019
Managing Member LLC	
** Signature of Reporting Person	Date

 $Reminder: \ Report \ on \ a \ separate \ line \ for \ each \ class \ of \ securities \ beneficially \ owned \ directly \ or \ indirectly.$

- * If the form is filed by more than one reporting person, see Instruction 5 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.