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

SCHEDULE :	13G
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Under the Securities Exchange Act of 1934

(Amendment No.)*

Kinnate Biopharma Inc.

(Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

49705R105 (CUSIP Number)

<u>December 31, 2020</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 REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
	RA Capital Management, L.P.			
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)		E BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a)		
				(b) □
3	SEC USE ONLY			
4	CITIZENS	SHIP OR PI	LACE O	F ORGANIZATION
	Delaware			
<u> </u>			5	SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY		R OF		0
		ES	6	SHARED VOTING POWER
•	OWNED BY EACH REPORTING PERSON			3,593,052
			7	SOLE DISPOSITIVE POWER
WITH:		I:		0
			8	SHARED DISPOSITIVE POWER
				3,593,052
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		T BENEFICIALLY OWNED BY EACH REPORTING PERSON		
3,593,052				
1	10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □		GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) \Box	
1	11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		EPRESENTED BY AMOUNT IN ROW 9	
	8.3%			
1	2 TYPE	E OF REPO	RTING 1	PERSON (SEE INSTRUCTIONS)
	IA, PN			

1	1 NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
	Peter Kolchinsky			
2				
				(a)
				(b)
3	SEC USE ONLY			
4	4 CITIZENSHIP OR PI		LACE O	F ORGANIZATION
United States of America				
			5	SOLE VOTING POWER
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:			0
			6	SHARED VOTING POWER
				3,593,052
			7	SOLE DISPOSITIVE POWER
				0
			8	SHARED DISPOSITIVE POWER
				3,593,052
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EA		MOUN	T BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,593	3,052		
1	10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □		GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □	
1	11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			EPRESENTED BY AMOUNT IN ROW 9
	8.3%			
1	12 TYPE	E OF REPO	RTING	PERSON (SEE INSTRUCTIONS)
	HC, I			
	пс, 1	11		

	NAMES OF REP	TING PERSONS TON NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
	Rajeev Shah				
	-				
2	CHECK THE AP	OPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) \Box			
		(b) □			
		(0) -1			
3	SEC USE ONLY				
4	CITIZENSHIP O	LACE OF ORGANIZATION			
	United States of A	rica			
		5 SOLE VOTING POWER			
		0			
		6 SHARED VOTING POWER			
	NUMBER OF SHARES	3,593,052			
	BENEFICIALLY	7 SOLE DISPOSITIVE POWER			
OWNED BY EACH REPORTING PERSON					
		0			
	WITH:	8 SHARED DISPOSITIVE POWER			
		3,593,052			
9	AGGREGAT	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	3,593,052				
1	O CHECK BOX	F THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) \square			
1	1 PERCENT C	CLASS REPRESENTED BY AMOUNT IN ROW 9			
	8.3%				
1	2 TYPE OF RE	ORTING PERSON (SEE INSTRUCTIONS)			
	HC, IN				
	пс, IIV				

	NAMES OF REPORTING PERSONS					
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	DAC SIR H. E. LED					
1	RA Capital Healthcare Fund, L.P.					
2	CHECK THE APPROPRIATE BOX IF A MEMBER O	DE A CRO	LID (CEE INCTIDICTIONS)			
2	CHECK THE APPROPRIATE BOX IF A MEMBER O	JF A GRU				
			(a)			
			(b) 🗆			
			(0)			
3	SEC USE ONLY					
	020 002 01.21					
4	CITIZENSHIP OR PLACE OF ORGANIZATION					
	Delaware					
		5	SOLE VOTING POWER			
	NUMBER OF		0			
	SHARES					
	BENEFICIALLY	6	SHARED VOTING POWER			
	OWNED BY					
	EACH	7	2,551,243			
	REPORTING PERSON		SOLE DISPOSITIVE POWER			
	WITH:					
	WIIH:		0			
			SHARED DISPOSITIVE POWER			
		8	SHARED DISFOSITIVE FOWER			
			2,551,243			
			2 ,502) 2 10			
9	AGGREGATE AMOUNT BENEFICIALLY OWNER	D BY EAC	H REPORTING PERSON			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN	ROW (9) I	EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)			
11	11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9					
	5.9%					
12	TYPE OF REPORTING PERSON (SEE INSTRUCT	IONS)				
	PN					

Item 1(a). Name of Issuer:

Kinnate Biopharma Inc. (the "Issuer")

Item 1(b). Address of Issuer's Principal Executive Offices:

11975 El Camino Real, Suite 101, San Diego, CA 92130

Item 2(a). Names of Persons Filing:

The names of the persons filing this report (collectively, the "Reporting Persons") are: RA Capital Management, L.P. ("RA Capital")

Peter Kolchinsky

Rajeev Shah

RA Capital Healthcare Fund, L.P. (the "Fund")

Item 2(b). Address of Principal Business Office or, if None, Residence:

The address of the principal business office of each of the Reporting Persons is: c/o RA Capital Management, L.P., 200 Berkeley Street, 18^{th} Floor, Boston MA 02116

Item 2(c). <u>Citizenship</u>:

RA Capital and the Fund are Delaware limited partnerships. Dr. Kolchinsky and Mr. Shah are United States citizens.

Item 2(d). <u>Title of Class of Securities</u>:

Common stock, par value \$0.0001 per share ("Common Stock")

Item 2(e). CUSIP Number:

49705R105

Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (e) RA Capital Management, L.P. is a registered investment adviser and is filing this statement in accordance with §240.13d-1(b)(1)(ii)(E);
- (g) Peter Kolchinsky and Rajeev Shah are control persons and are filing this statement in accordance with §240.13d-1(b)(1)(ii)(G).

Item 4. Ownership.

The information required by this item with respect to each Reporting Person is set forth in Rows 5 through 9 and 11 of the cover pages to this Schedule 13G. The ownership percentages reported are based on 43,327,219 outstanding Common Stock, as reported in the Issuer's Prospectus Supplement filed on December 3, 2020 and giving effect to an additional 1,800,000 shares issued and sold pursuant to the underwriters' option.

The Fund directly holds 2,551,243 shares of Common Stock. A separately managed account (the "Account") holds 270,888 shares of Common Stock and RA Capital Nexus Fund, L.P. (the "Nexus Fund") holds 770,921 shares of Common Stock.

RA Capital Healthcare Fund GP, LLC is the general partner of the Fund and RA Capital Nexus Fund GP, LLC is the general partner of the Nexus Fund. The general partner of RA Capital is RA Capital Management GP, LLC, of which Dr. Kolchinsky and Mr. Shah are the controlling persons. RA Capital serves as investment adviser for the Fund, the Account, and the Nexus Fund and may be deemed a beneficial owner, for purposes of Section 13(d) of the Securities Exchange Act of 1934 (the "Act"), of any securities of the Issuer held by the Fund, the Account, or the Nexus Fund. The Fund and the Nexus Fund have delegated to RA Capital the sole power to vote and the sole power to dispose of all securities held in the Fund's and the Nexus Fund's portfolio, including the shares of the Issuer's Common Stock reported herein. Because the Fund and the Nexus Fund have divested themselves of voting and investment power over the reported securities they hold and may not revoke that delegation on less than 61 days' notice, the Fund and the Nexus Fund disclaim beneficial ownership of the securities they hold for purposes of Section 13(d) of the Act and therefore disclaim any obligation to report ownership of the reported securities under Section 13(d) of the Act. As managers of RA Capital, Dr. Kolchinsky and Mr. Shah may be deemed beneficial owners, for purposes of Section 13(d) of the Act, of any securities of the Issuer beneficially owned by RA Capital, Dr. Kolchinsky, and Mr. Shah disclaim beneficial ownership of the securities reported in this Schedule 13D Statement (the "Statement") other than for the purpose of determining their obligations under Section 13(d) of the Act, and the filing of the Statement shall not be deemed an admission that either RA Capital, Dr. Kolchinsky, or Mr. Shah is the beneficial owner of such securities for any other purpose.

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 \Box .

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. <u>Identification and Classification of Members of the Group.</u>

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. <u>Certification</u>.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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, other than activities solely in connection with a nomination under § 240.14a-11.

SIGNATURE

correc		dersigned certifies that the information set forth in this statement is true, complete and
Date:F	February 16, 2021	
RA C	APITAL MANAGEMENT, L.P.	
By:	/s/ Peter Kolchinsky Name:Peter Kolchinsky Title:Authorized Signatory	
PETE	R KOLCHINSKY	
/s/ Pet	er Kolchinsky	
RAJE	EV SHAH	
/s/ Raj	eev Shah	
RA C	APITAL HEALTHCARE FUND, L.P.	
Bv:	RA Capital Healthcare GP. LLC	

By: /s/ Peter Kolchinsky
Name:Peter Kolchinsky
Title:Manager

AGREEMENT

This Joint Filing Agreement, dated as of February 16, 2021, is by and among RA Capital Management, L.P., Peter Kolchinsky, Rajeev Shah, and RA Capital Healthcare Fund, L.P. (the foregoing are collectively referred to herein as the "Filers").

Each of the Filers may be required to file with the United States Securities and Exchange Commission a statement on Schedule 13G and/or 13D with respect to Common Stock, par value \$0.0001 per share of Kinnate Biopharma Inc. beneficially owned by them from time to time.

Pursuant to and in accordance with Rule 13(d)(1)(k) promulgated under the Securities Exchange Act of 1934, as amended, the Filers hereby agree to file a single statement on Schedule 13G and/or 13D (and any amendments thereto) on behalf of each of such parties, and hereby further agree to file this Joint Filing Agreement as an exhibit to such statement, as required by such rule.

This Joint Filing Agreement may be terminated by any of the Filers upon one week's prior written notice or such lesser period of notice as the Filers may mutually agree.

Executed and delivered as of the date first above written.

RA CAPITAL MANAGEMENT, L.P.					
By: /s/ Peter Kolchinsky					
Name:Peter Kolchinsky					
Title:Authorized Signatory					
PETER KOLCHINSKY					
s/ Peter Kolchinsky					
AJEEV SHAH					
s/ Rajeev Shah					
RA CAPITAL HEALTHCARE FUND, L.P.					

By: RA Capital Healthcare GP, LLC

By: /s/ Peter Kolchinsky
Name:Peter Kolchinsky
Title:Manager