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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.)*

<u>Cytek Biosciences</u>, <u>Inc.</u> (Name of Issuer)

Common Stock, par value \$0.001 per share (Title of Class of Securities)
23285D109 (CUSIP Number)
December 31, 2023 (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).

CUSIP No. 23285D109

	11 110: 202002109				
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)				
	(a) □ (b) □				
3	SEC USE ONLY				
4	CITIZENSHIP OF	R PLA	CE OF ORGANIZATION		
	Delaware				
NUMBER OF		5	SOLE VOTING POWER		
	SHARES		0		
BENEFICIALLY		6	SHARED VOTING POWER		
	OWNED BY		6,809,404		
	EACH	7	SOLE DISPOSITIVE POWER		
REPORTING			0		
	PERSON	8	SHARED DISPOSITIVE POWER		
	WITH		6,809,404		
9	AGGREGATE AN	MOUN	T BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	6,809,404				
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □				
11	1 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	5.2%				
12	2 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)				
	IA, PN				
<u> </u>	İ				

CUSIP No. 23285D109

000	11 110. 252055109				
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	Peter Kolchinsky				
2	CHECK THE API	PROPI	RIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)		
	(a) □ (b) □				
3	SEC USE ONLY				
4	4 CITIZENSHIP OR PLACE OF ORGANIZATION				
	United States				
	NUMBER OF	5	SOLE VOTING POWER		
	SHARES		0		
В	ENEFICIALLY	6	SHARED VOTING POWER		
OWNED BY			6,809,404		
	EACH	7	SOLE DISPOSITIVE POWER		
REPORTING			0		
	PERSON	8	SHARED DISPOSITIVE POWER		
	WITH		6,809,404		
9	AGGREGATE AN	MOUN	T BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	6,809,404				
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)				
11	1 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	5.2%				
12	TYPE OF REPOR	TING	PERSON (SEE INSTRUCTIONS)		
	HC, IN				
	•				

CUSIP No. 23285D109

CCB	n 110. 25205B107				
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	Rajeev Shah				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)				
	(a) □ (b) □				
3	SEC USE ONLY				
4	4 CITIZENSHIP OR PLACE OF ORGANIZATION				
	United States				
	NUMBER OF	5	SOLE VOTING POWER		
	SHARES		0		
BENEFICIALLY OWNED BY		6	SHARED VOTING POWER		
			6,809,404		
	EACH	7	SOLE DISPOSITIVE POWER		
REPORTING			0		
	PERSON	8	SHARED DISPOSITIVE POWER		
	WITH		6,809,404		
9	AGGREGATE AN	MOUN	IT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	6,809,404				
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	5.2%				
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)				
	HC, IN				

Item 1(a). Name of Issuer:

Cytek Biosciences, Inc. (the "Issuer")

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

47215 Lakeview Blvd., Fremont, CA 94538

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

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, 18th Floor, Boston MA 02116

Item 2(c). Citizenship:

RA Capital is a Delaware limited partnership. Dr. Kolchinsky and Mr. Shah are United States citizens.

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.001 per share ("Common Stock")

Item 2(e). CUSIP Number:

23285D109

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:

Not applicable.

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 130,714,906 shares of Common Stock outstanding as of December 31, 2023 as reported by the Issuer to the Reporting Persons on February 21, 2024.

The Reporting Persons' ownership of the Issuer's securities includes (i) 5,802,621 shares of Common Stock held directly by RA Capital Healthcare Fund, L.P. (the "Fund"); (ii) 704,940 shares of Common Stock held by RA Capital Nexus Fund II, L.P. (the "Nexus Fund II"); and (iii) 301,843 shares of Common Stock shares held by a separately managed account (the "Account").

RA Capital Healthcare Fund GP, LLC is the general partner of the Fund and RA Capital Nexus Fund II GP, LLC is the general partner of the Nexus Fund II. 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 Nexus Fund II and the Account 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 Nexus Fund II and the Account. The Fund and the Nexus Fund II 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 II's portfolios, including the Issuer's Common Stock reported herein. Because the Fund and the Nexus Fund II 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 II 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, RA Capital, Dr. Kolchinsky, and Mr. Shah disclaim beneficial ownership of the securities reported in this Schedule 13G other than for the purpose of determining their obligations under Section 13(d) of the Act, and the filing of this Schedule 13G 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.	Ownerch	in of Five	Percent or	I ass of a	Class
item 5.	Ownersn	ID OI FIVE	e 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. Identification and Classification of Members of the Group.

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

Not applicable.

Exhibit List

Exhibit 1: Joint Filing Agreement

SIGNATURE

After reasonable inquiry and to the best of its or his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.
Dated: February 22, 2024
RA CAPITAL MANAGEMENT, L.P.

By: /s/ Peter Kolchinsky
Name: Peter Kolchinsky
Title: Authorized Signatory

PETER KOLCHINSKY

/s/ Peter Kolchinsky

RAJEEV SHAH

/s/ Rajeev Shah

AGREEMENT

This Joint Filing Agreement, dated as of February 22, 2024 is by and among RA Capital Management, L.P., Peter Kolchinsky and Rajeev Shah (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 \$0.001 per share of Cytek Biosciences, 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			
RAJEEV SHAH			
/s/ Rajeev Shah			