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

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

Mineralys Therapeutics, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

603170101

(CUSIP Number)

Abrar Hussain Samsara BioCapital 628 Middlefield Road Palo Alto, CA 94301 650-285-4270

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

February 12, 2024

(Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of $\S240.13d-1(e)$, 240.13d-1(g), check the following box. \square

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

* 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 disclosures provided in a prior cover page.

The information required on 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. 603170101

1.	Names of Reporting Persons Samsara BioCapital, L.P.				
2.		Check the Appropriate Box if a Member of a Group (See Instructions) (a) □ (b) □			
3.	SEC Use	Only			
4.	Source of Funds (See Instructions) OO				
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) □				
6.	Citizenship or Place of Organization Delaware				
Number o	of	7.	Sole Voting Power 0		
Shares Beneficia Owned by		8.	Shared Voting Power 5,074,916		
Each Reporting	3	9.	Sole Dispositive Power 0		
Person W	1th	10.	Shared Dispositive Power 5,074,916		
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 5,074,916				
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) □				
13.	Percent of Class Represented by Amount in Row (11) 10.3%				
14.	Type of Reporting Person (See Instructions) PN				

CUICID N (02170101			
CUSIP No. 603170101		603170101	CUSIP No.

1.		Names of Reporting Persons Samsara BioCapital GP, LLC			
2.		Check the Appropriate Box if a Member of a Group (See Instructions)			
3.	SEC Use	Only			
4.	Source of Funds (See Instructions) OO				
5.	Check if	Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) □			
6.	Citizenship or Place of Organization Delaware				
Number	of	7.	Sole Voting Power 0		
Shares Beneficia		8.	Shared Voting Power 5,074,916		
Owned b Each Reporting		9.	Sole Dispositive Power 0		
Person W		10.	Shared Dispositive Power 5,074,916		
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 5,074,916				
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) □				
13.	Percent of Class Represented by Amount in Row (11) 10.3%				
14.	Type of Reporting Person (See Instructions) OO				

CUSIP No. 603170101

1.	Names of Reporting Persons Srinivas Akkaraju			
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) □ (b) □			
3.	SEC Use	Only		
4.	Source of Funds (See Instructions) OO			
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) □			
6.	Citizenship or Place of Organization United States			
Number	r of	7.	Sole Voting Power 17,111	
Shares Benefic		8.	Shared Voting Power 5,074,916	
Owned Each Reporting		9.	Sole Dispositive Power 17,111	
Person		10.	Shared Dispositive Power 5,074,916	
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 5,092,027			
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) □			
13.	Percent of Class Represented by Amount in Row (11) 10.3%			
14.	Type of Reporting Person (See Instructions) IN			

Explanatory Note: This Amendment No. 1 ("Amendment No. 1"), which amends the Schedule 13D filed with the Securities and Exchange Commission (the "SEC") on February 24, 2023 (the "Original Schedule 13D") filed on behalf of Samsara BioCapital, L.P. ("Samsara LP"), Samsara BioCapital GP, LLC ("Samsara LLC"); and Srinivas Akkaraju, M.D., Ph.D. ("Dr. Akkaraju" and together with Samsara LP and Samsara LLC, collectively, the "Reporting Persons"), relates to the Common Stock, par value \$0.0001 per share ("Common Stock"), of Mineralys Therapeutics, Inc., a Delaware corporation (the "Issuer"). Unless otherwise defined herein, capitalized terms used in this Amendment No. 1 shall have the meanings ascribed to them in the Original Schedule 13D.

Item 3. Source and Amount of Funds or Other Consideration

Item 3 of the Original Schedule 13D is hereby amended and supplemented to add the following:

February 2024 Securities Purchase Agreement

On February 7, 2024, the Issuer entered into a securities purchase agreement (the "February 2024 Securities Purchase Agreement") with certain institutional accredited investors (the "February 2024 PIPE Investors"), pursuant to which the Issuer agreed to issue and sell to the February 2024 PIPE Investors in a private placement (the "February 2024 Private Placement") (i) an aggregate of 8,339,169 shares of Common Stock (the "Shares") at a price of \$13.50 per share; and (ii) an aggregate of 549,755 warrants (the "Pre-Funded Warrants") in lieu of shares of Common Stock, at a purchase price of \$13.499 per Pre-Funded Warrant (the shares of Common Stock issuable upon exercise of the Pre-Funded Warrants, the "Warrant Shares"). The February 2024 Private Placement closed on February 12, 2024. Samsara LP purchased 555,555 shares of Common Stock in the February 2024 Private Placement, for total consideration of \$7,499,992.50. The source of funds for Samsara LP's purchase of Common Stock in the February 2024 Private Placement was capital contributions for its partners.

References to and the description of the February 2024 Securities Purchase Agreement set forth above in this Item 3 do not purport to be complete and are qualified in their entirety by reference to the full text of the February 2024 Securities Purchase Agreement, which is attached hereto as Exhibit 4 and incorporated by reference herein.

Item 5. Interest in Securities of the Issuer

(a) – (b). The ownership information presented below represents beneficial ownership of Common Stock of the Issuer as of the date hereof. The ownership percentages in the table below are based upon the sum of (i) 41,105,118 outstanding shares of Common Stock, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission (the "SEC") on November 7, 2023, (ii) 8,339,169 shares of Common Stock issued in the February 2024 Private Placement, and (iii) with respect to Dr. Akkaraju, only, the number of shares issuable upon exercise of stock options within 60 days hereof.

					Sole power	Shared
			Sole		to dispose	power to
			power to	Shared	or to direct	dispose or
	Amount	Percent	vote or to	power to vote	the	to direct the
	beneficially	of	direct the	or to direct	disposition	disposition
Reporting Person	owned	class:	vote:	the vote:	of:	of:
Samsara BioCapital, L.P. (1)	5,074,916	10.3%	0	5,074,916	0	5,074,916
Samsara BioCapital GP, LLC (1)	5,074,916	10.3%	0	5,074,916	0	5,074,916
Srinivas Akkaraju (1)(2)	5,092,027	10.3%	17,111	5,092,027	17,111	5,092,027

- (1) Samsara LP is the record holder of 5,074,916 shares of Common Stock. Samsara LLC is the general partner of Samsara LP and may be deemed to beneficially own the shares held by Samsara LP. Dr. Akkaraju has voting and investment power over the shares held by Samsara LP and, accordingly, may be deemed to beneficially own the shares held by Samsara LP.
- (2) Includes 17,111 shares of Common Stock issuable upon exercise of stock options held by Dr. Akkaraju that will be exercisable within 60 days of the date hereof.
- (c) Except as described in Item 3, during the past 60 days, the Reporting Persons have not effected any transactions in the Common Stock.
- (d) None
- (e) Not applicable.

Item 6. Material to be Filed as Exhibits

Item 6 of the Original Schedule 13D is hereby amended and supplemented to add the following:

Item 3 is incorporated by reference.

Pursuant to the February 2024 Securities Purchase Agreement, the Issuer agreed to file a registration statement with the SEC within 60 days after the closing of the February 2024 Private Placement (subject to certain exceptions) for purposes of registering the resale of the Shares and the Warrant Shares, to use its reasonable best efforts to have such registration statement declared effective within the time period set forth in the February 2024 Purchase Agreement, and to keep such registration statement effective until the earliest of (i) the time as all of the Shares and Warrant Shares purchased by the February 2024 PIPE Investors pursuant to the terms of the February 2024 Purchase Agreement have been sold pursuant to the registration statement, or (ii) such time as the Shares and Warrant Shares become eligible for resale by non-affiliates without any volume limitations or other restrictions pursuant to Rule 144 under the Securities Act of 1933, as amended (the "Securities Act").

References to and the description of the February 2024 Securities Purchase Agreement set forth above in this Item 6 do not purport to be complete and are qualified in their entirety by reference to the full text of the February 2024 Securities Purchase Agreement, which is attached hereto as Exhibit 4 and incorporated by reference herein.

Item 7. Material to be Filed as Exhibits

Item 7 of the Statement is hereby amended and supplemented to add the following:

Exhibit Number Description

Securities Purchase Agreement, dated February 7, 2024, by and between Mineralys Therapeutics, Inc. and each of the purchasers party thereto (incorporated by reference to Exhibit 10.1 to the Issuer's Current Report on Form 8-K filed on February 8, 2024)

SIGNATURES

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.
Dated: February 12, 2024
Samsara BioCapital, L.P.
By: /s/ Abrar Hussain Name: /s/ Abrar Hussain Title: Attorney-in-Fact
Samsara BioCapital GP, LLC
By: /s/ Abrar Hussain Name: /s/ Abrar Hussain Title: Attorney-in-Fact
Srinivas Akkaraju, M.D., Ph.D.

By: /s/ Abrar Hussain
Name: /s/ Abrar Hussain
Title: Attorney-in-Fact