UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment No. 10)*

VENTYX BIOSCIENCES, INC.

(Name of Issuer)

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

> 92332V107 (CUSIP Number)

Somasundaram Subramaniam New Science Ventures 500 West Putnam Avenue, Suite 400 Greenwich, CT 06830 (212) 688-5100

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

with a copy to:

Leland S. Benton Morgan, Lewis & Bockius LLP 1111 Pennsylvania Avenue, NW Washington, DC 20004 (202) 739-3000

March 11, 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 \$ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-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).

1	NAME OF REPORTI	NG PERSONS
	NSV Investments I, L	Р.
2		PRIATE BOX IF A MEMBER OF A GROUP
	(a) □ (b) □	
3	SEC USE ONLY	
4	SOURCE OF FUNDS	(See Instructions)
	WC, AF	
5	CHECK BOX IF DIS	CLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)
6	CITIZENSHIP OR PI	ACE OF ORGANIZATION
	Delaware	
	Delaware	7 SOLE VOTING POWER
	NUMBER OF	0 8 SHARED VOTING POWER
	NUMBER OF SHARES	6 SHARED VOTING LOWER
	BENEFICIALLY	5,004,071
	OWNED BY EACH REPORTING	9 SOLE DISPOSITIVE POWER
	PERSON WITH:	0
		10 SHARED DISPOSITIVE POWER
		5,004,071
11	AGGREGATE AMO	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	5,004,071	
12		AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)
13		S REPRESENTED BY AMOUNT IN ROW (11)
15	FERCENT OF CLAS	5 KEFKESENTED DT ANIOUNT IN KOW (11)
	7.1%	
14	TYPE OF REPORTIN	IG PERSON
	PN	

1	NAME OF REPORTING PERSONS		
	NSV Partners III, L.P.		
2		PRIATE BOX IF A MEMBER OF A GROUP	
	(a) 🗆 (b) 🗆		
3	SEC USE ONLY		
4	SOURCE OF FUNDS	(See Instructions)	
	AF		
5	CHECK BOX IF DIS	CLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)	
6	CITIZENSHIP OR PL	ACE OF ORGANIZATION	
	Delaware		
		7 SOLE VOTING POWER	
		0	
	NUMBER OF	8 SHARED VOTING POWER	
	SHARES BENEFICIALLY	7,596,692	
	OWNED BY EACH	9 SOLE DISPOSITIVE POWER	
	REPORTING PERSON WITH:	0	
	TERSON WITH.	10 SHARED DISPOSITIVE POWER	
		7,596,692	
11	AGGREGATE AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	7,596,692		
12		AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)	
13	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (11)	
14	10.8% TYPE OF REPORTIN	IG PERSON	
	PN		

1	NAME OF REPORTING PERSONS				
	NSV Partners III GP, LLC				
2					
	(a) □ (b) □				
3	SEC USE ONLY	SEC USE ONLY			
4	SOURCE OF FUNDS (See Instructions)				
	AF				
5		CLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			
6	CITIZENSHIP OR PI	ACE OF ORGANIZATION			
	Delaware				
		7 SOLE VOTING POWER			
		0			
	NUMBER OF	8 SHARED VOTING POWER			
	SHARES	7.507.700			
	BENEFICIALLY OWNED BY EACH	7,596,692 9 SOLE DISPOSITIVE POWER			
	REPORTING				
	PERSON WITH:				
		10 SHARED DISPOSITIVE POWER			
		7,596,692			
11	AGGREGATE AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	7,596,692				
12	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)			
13	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (11)			
	10.8%				
14	TYPE OF REPORTIN	G PERSON			
<u> </u>	00				

1	NAME OF REPORTING PERSONS			
	Somasundaram Subramaniam			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \Box (b) \Box			
3	SEC USE ONLY	SEC USE ONLY		
4	SOURCE OF FUNDS (See Instructions)			
	AF			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e) □			
Ĺ				
6	CITIZENSHIP OR PI	LACE OF ORGANIZATION		
	USA			
		7 SOLE VOTING POWER		
		0 8 SHARED VOTING POWER		
	NUMBER OF SHARES			
	BENEFICIALLY OWNED BY EACH	8,439,635 9 SOLE DISPOSITIVE POWER		
	REPORTING	5 SOLE DISPOSITIVE FOWLK		
	PERSON WITH:	0 10 SHARED DISPOSITIVE POWER		
11	AGGREGATE AMO	8,439,635 UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
12	8,439,635 CHECK BOX IF THE	E AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)		
13	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (11)		
	12.0%			
14	TYPE OF REPORTIN	NG PERSON		
	IN			
l	** '			

13D/A

This Amendment No. 10 ("Amendment No. 10") amends the Statement of Beneficial Ownership on Schedule 13D jointly filed with the Securities and Exchange Commission (the "Commission") by NSV Investments I, L.P., a Delaware limited partnership, NSV Partners III, L.P., a Delaware limited partnership, NSV Partners III GP, LLC, a Delaware limited liability company and Somasundaram Subramaniam, a United States citizen (collectively, the "Reporting Persons"), on October 29, 2021, and amended on September 21, 2022, December 16, 2022, December 30, 2022, March 2, 2023, March 22, 2023, April 6, 2023, July 11, 2023, July 19, 2023, and on March 8, 2024 (as amended, the "Schedule 13D"), with respect to the shares of common stock, par value \$0.0001 per share ("Common Stock"), of Ventyx Biosciences, Inc. (the "Issuer"). Except as specifically provided herein, this Amendment No. 10 does not modify any of the information previously reported in the Schedule 13D, which remains unchanged.

This Amendment No. 10 is being filed to update the aggregate percentage of the Issuer's Common Stock owned by the Reporting Persons solely due to dilution caused by the Issuer's issuance of an additional 11,174,000 shares of Common Stock on March 11, 2024 pursuant to the Issuer's Stock Purchase Agreement for a private placement (the "Private Placement") with certain qualified institutional buyers and institutional accredited investors, and not in connection with a purchase or disposition of any Common Stock by the Reporting Persons.

Item 5. Interest in Securities of the Issuer

Item 5 of the Schedule 13D is hereby amended as follows:

(a-b) As of March 11, 2024, the Reporting Persons may be deemed to beneficially own, in the aggregate, 8,439,635 shares of Common Stock, representing approximately 12.0% of the Issuer's outstanding shares of Common Stock, based on 70,426,349 shares of Common Stock outstanding, which is the sum of (i) 59,252,349 shares of Common Stock outstanding as of February 22, 2024, as disclosed in the Issuer's Annual Report on Form 10-K filed with the Commission on February 27, 2024, and (ii) 11,174,000 shares of Common Stock issued by the Issuer in connection with the Private Placement.

Somasundaram Subramaniam has the sole power to vote or direct the vote of 0 shares; has the shared power to vote or direct the vote of 8,439,635 shares; has the sole power to dispose or direct the disposition of 0 shares; and has the shared power to dispose or direct the disposition of 8,439,635 shares.

Mr. Subramaniam is the majority member and managing member of NSV Partners II, LLC, and may be deemed to share with NSV Partners II, LLC voting and dispositive power over the 408,520 shares owned by NSV Partners II, LLC, constituting 0.6% of the Issuer's shares outstanding based upon 70,426,349 shares outstanding.

Mr. Subramaniam is the majority member and managing member of NSV Partners III GP, LLC, and may be deemed to share with NSV Partners III GP, LLC and NSV Partners III, L.P. voting and dispositive power over (i) the 1,381,606 shares owned by NSV Partners III, L.P., and (ii) the aggregate of 6,215,086 shares owned by the entities of which NSV Partners III, L.P. is the general partner, or an aggregate of 7,596,692 shares, constituting 10.8% of the Issuer's shares outstanding based on 70,426,349 shares outstanding. NSV Partners III GP, LLC is the general partner of NSV Partners III, L.P. NSV Partners III, L.P. is the general partner of NSV Investments I, L.P., NSV Investments II, L.P., and NSV Investments III, L.P.

Mr. Subramaniam is the majority member and managing member of New Science Ventures, LLC, and may be deemed to share voting and dispositive power over the shares owned by New Science Ventures, LLC, or 434,423 shares, constituting 0.6% of the Issuer's shares outstanding based upon 70,426,349 shares outstanding.

The shares beneficially owned by the Reporting Persons consist of: (i) 5,004,071 shares owned by NSV Investments I, L.P., (ii) 1,381,606 shares owned by NSV Partners, III, L.P., (iii) 978,835 shares owned by NSV Investments III, L.P., (iv) 434,423 shares owned by New Science Ventures, LLC, (v) 408,520 shares owned by NSV Partners II, LLC, and (vi) 232,180 shares owned by NSV Investments II, L.P.

(c-e) Not applicable.

13D/A

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: March 13, 2024

NSV Iı	nvestments I, L.P.	
By:	/s/ Tom Lavin	
Name:	Tom Lavin	
Title:	Partner	
NSV P	artners III, L.P.	
By:	/s/ Tom Lavin	
Name:	Tom Lavin	
Title:	Partner	
NSV Partners III GP, LLC		
By:	/s/ Tom Lavin	
Name:	Tom Lavin	
Title:	Partner	
Somas	undaram Subramaniam	
By:	/s/ Somasundaram Subramaniam*	
Name:	Somasundaram Subramaniam	

* This reporting person disclaims beneficial ownership of these reported securities except to the extent of his pecuniary interest therein, and this report shall not be deemed an admission that he is the beneficial owner of these securities for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, or for any other purpose.

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (see 18 U.S.C. 10001).