
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 6)

SKYE BIOSCIENCE, INC.

(Name of Issuer)

Common Stock, par value \$0.001 per share

(Title of Class of Securities)

83086J309

(CUSIP Number)

Lauren A. Daniel
5AM Venture Management, LLC, 4 Embarcadero Center, Suite 3110
San Francisco, CA, 94111
(415) 993-8565

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

09/22/2026

(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. ☐

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).

SCHEDULE 13D

CUSIP 83086J309
Number(s):

1	Name of reporting person 5AM Partners VII, LLC
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) AF	
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 1,194,443.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 1,194,443.00
11	Aggregate amount beneficially owned by each reporting person 1,194,443.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 25.7 %	
14	Type of Reporting Person (See Instructions) OO	

SCHEDULE 13D

CUSIP 83086J309
Number(s):

1	Name of reporting person 5AM Ventures VII, 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) WC	
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 1,194,443.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 1,194,443.00
11	Aggregate amount beneficially owned by each reporting person 1,194,443.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 25.7 %	
14	Type of Reporting Person (See Instructions) PN	

SCHEDULE 13D

CUSIP 83086J309
Number(s):

1	Name of reporting person 5AM Partners II, LLC
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) AF
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 0.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 0.00
11	Aggregate amount beneficially owned by each reporting person 0.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 0.0 %	
14	Type of Reporting Person (See Instructions) OO	

SCHEDULE 13D

CUSIP Number(s):	83086J309
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1	Name of reporting person 5AM Ventures II, 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) WC
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 0.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 0.00
11	Aggregate amount beneficially owned by each reporting person 0.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 0.0 %	
14	Type of Reporting Person (See Instructions) PN	

SCHEDULE 13D

CUSIP Number(s):	83086J309
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1	Name of reporting person 5AM Co-Investors II, 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) WC
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 0.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 0.00
11	Aggregate amount beneficially owned by each reporting person 0.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 0.0 %	
14	Type of Reporting Person (See Instructions) PN	

SCHEDULE 13D

CUSIP 83086J309
Number(s):

1	Name of reporting person Andrew J. Schwab
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) AF
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 23,645.00
	8	Shared Voting Power 1,194,443.00
	9	Sole Dispositive Power 23,645.00
	10	Shared Dispositive Power 1,194,443.00
11	Aggregate amount beneficially owned by each reporting person 1,218,088.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 26.1 %	
14	Type of Reporting Person (See Instructions) IN	

SCHEDULE 13D

CUSIP Number(s):	83086J309
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1	Name of reporting person Kush Parmar
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) AF
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 1,194,443.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 1,194,443.00
11	Aggregate amount beneficially owned by each reporting person 1,194,443.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 25.7 %	
14	Type of Reporting Person (See Instructions) IN	

SCHEDULE 13D

CUSIP Number(s):	83086J309
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1	Name of reporting person John D. Diekman
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) AF
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 0.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 0.00
11	Aggregate amount beneficially owned by each reporting person 0.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 0.0 %	
14	Type of Reporting Person (See Instructions) IN	

SCHEDULE 13D

CUSIP Number(s):	83086J309
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1	Name of reporting person Scott M. Rocklage
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) AF
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 of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 0.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 0.00
11	Aggregate amount beneficially owned by each reporting person 0.00	
12	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐	
13	Percent of class represented by amount in Row (11) 0.0 %	
14	Type of Reporting Person (See Instructions) IN	

SCHEDULE 13D

Item 1. Security and Issuer

- (a) **Title of Class of Securities:**
Common Stock, par value \$0.001 per share
- (b) **Name of Issuer:**
SKYE BIOSCIENCE, INC.
- (c) **Address of Issuer's Principal Executive Offices:**
11250 EL CAMINO REAL, SUITE 100, SAN DIEGO, CALIFORNIA , 92130.

Item 1 Comment:

This Amendment No. 6 (this "Amendment No. 6" or this "Schedule 13D/A") amends and supplements the statement on Schedule 13D originally filed with the Securities and Exchange Commission (the "SEC") on August 28, 2023, and amended on January 31, 2024, March 13, 2024, December 19, 2024, December 16, 2025 and August 18, 2026 (as amended, the "Statement") by the Reporting Persons. The share numbers in this Amendment No. 6 give effect to a 1-for-8 reverse split of the outstanding shares of the Issuer's common stock effected on August 24, 2026 ("the Reverse Split"). Unless otherwise defined herein, capitalized terms used in this Amendment No. 6 shall have the meanings ascribed to them in the Statement. Unless amended or supplemented below, the information in the Statement remains unchanged.

Item 2. Identity and Background

- (a) This Schedule 13D/A is being filed on behalf of 5AM Ventures VII, L.P. ("Ventures VII"), 5AM Partners VII, LLC ("Partners VII"), 5AM Ventures II, L.P. ("Ventures II"), 5AM Co-Investors II, L.P. ("Co-Investors II"), 5AM Partners II, LLC ("Partners II"), Andrew J. Schwab ("Schwab"), Dr. Kush Parmar ("Parmar"), Dr. John D. Diekman ("Diekman") and Dr. Scott M. Rocklage ("Rocklage"). The foregoing entities and individuals are collectively referred to herein as the "Reporting Persons." The agreement among the Reporting Persons to file this Schedule 13D jointly in accordance with Rule 13d-1(k) of the Act, which is filed as Exhibit 99.1.
- (b) The address of the principal business office of each of the Reporting Persons is 4 Embarcadero Center, Suite 3110, San Francisco, CA 94111.
- (c) The principal business of the Reporting Persons is venture capital investments. Each of Diekman and Rocklage serves as a Managing Member of Partners II, which is the general partner of Ventures II. Parmar serves as a Managing Member of Partners VII, which is the general partner of Ventures VII. Schwab serves as a Managing Member of each of Partners II and Partners VII.
- (d) During the last five years, none of the Reporting Persons has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).
- (e) During the last five years, none of the Reporting Persons was a party to a civil proceeding of a judicial or administrative body of competent jurisdiction or were subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

- (f) Each of Ventures VII, Partners VII, Ventures II, Co-Investors II and Partners II was organized in the state of Delaware and each of the individuals is a citizen of the United States.

Item 5. Interest in Securities of the Issuer

- (a) Rows 11 and 13 of each Reporting Person's cover page to this Schedule 13D/A set forth the aggregate number of shares of common stock of the Issuer and the percentage of the shares of common stock of the Issuer beneficially owned by such Reporting Person and are incorporated by reference. The percentage set forth in each row 13 is based upon 4,427,677 shares of common stock outstanding as of August 11, 2026, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the SEC on August 14, 2026, and giving effect to the Reverse Split and stock options, to the extent exercisable within 60 days hereof, as referenced herein.

The Reporting Persons' beneficial ownership of the Issuer's securities includes (i) 981,269 shares of common stock and 213,174 shares of common stock issuable upon exercise of warrants directly held by Ventures VII and (ii) 23,645 shares of common stock issuable upon the exercise of stock options (right to buy) exercisable within 60 days of the date hereof held by Schwab.

Partners VII serves as sole general partner of Ventures VII and Schwab and Parmar are managing members of Partners VII. Each of Partners VII, Schwab and Parmar shares voting and dispositive power over the securities held by Ventures VII.

- (b) See rows 7 through 10 on the cover pages of this Schedule 13D/A for the number of shares of common stock as to which each Reporting Person has the sole or shared power to vote or direct the vote and sole or shared power to dispose or to direct the disposition.
- (c) Except as set forth below, none of the Reporting Persons has effected any transactions with respect to the securities of the Issuer since the most recent amendment to the Statement.

	Reporting Person	Weighted No. Transaction	Low Average Date	High Price Shares	Price (\$)	Price (\$)	Price (\$)
Open Market Sale	Ventures VII	08/19/2026	7,184	2.80	2.64	2.88	(1)
Open Market Sale	Ventures II	08/19/2026	1,281	2.80	2.64	2.88	(1)
Open Market Sale	Co-Investors II	08/19/2026	51	2.80	2.64	2.88	(1)
Open Market Sale	Ventures VII	08/20/2026	811	2.56	2.56	2.56	(1)
Open Market Sale	Ventures II	08/20/2026	144	2.56	2.56	2.56	(1)
Open Market Sale	Co-Investors II	08/20/2026	5	2.56	2.56	2.56	(1)
Open Market Sale	Ventures II	09/16/2026	32,607	1.91	1.70	2.11	
Open Market Sale	Co-Investors II	09/16/2026	1,285	1.91	1.70	2.11	
Block Sale	Ventures II	09/22/2026	27,612	1.65	n/a	n/a	
Block Sale	Co-Investors II	09/22/2026	1,088	1.65	n/a	n/a	
Open Market Sale	Ventures II	09/23/2026	114,851	1.61	1.60	1.77	
Open Market Sale	Co-Investors II	09/23/2026	4,528	1.61	1.60	1.77	

(1) The share amounts and prices of these transactions have been adjusted to give effect to the Reverse Split, which was effected subsequent to such transactions.

- (d) No other person is known to have the right to receive or the power to direct the receipt of dividends from, or any proceeds from the sale of, the securities beneficially owned by any of the Reporting Persons.
- (e) Not applicable.

Item 7. Material to be Filed as Exhibits.

Exhibit 99.1 Joint Filing Agreement (incorporated by reference to Exhibit 99.1 to the Reporting Persons' Schedule 13D filed with the SEC on December 19, 2024).

Exhibit 99.2 Transaction Agreement, by and between Skye Bioscience, Inc. and Redx Pharma Limited, dated as of August 14, 2026 (incorporated by reference to Exhibit 2.1 to the Issuer's Current Report on Form 8-K (File No. 0-55136), filed with the SEC on August 14, 2026).

Exhibit 99.3 Form of Securities Purchase Agreement, by and between Skye Bioscience, Inc. and the Investors named therein, dated as of August 14, 2026 (incorporated by reference to Exhibit 10.6 to the Issuer's Current Report on Form 8-K (File No. 0-55136), filed with the SEC on August 14, 2026).

Exhibit 99.4 Form of Legacy CVR Agreement (incorporated by reference to Annex C to the Transaction Agreement filed as Exhibit 99.2 hereto).

Exhibit 99.5 Form of Registration Rights Agreement (incorporated by reference to Exhibit B to the Form of Securities Purchase Agreement filed as Exhibit 99.3 hereto).

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.

5AM Partners VII, LLC

Signature: /s/ Andrew J. Schwab

Name/Title: By Andrew J. Schwab, Managing Member

Date: 09/24/2026

5AM Ventures VII, L.P.

Signature: /s/ Andrew J. Schwab
Name/Title: By 5AM Partners VII, LLC, its General Partner, By
Andrew J. Schwab, Managing Member
Date: 09/24/2026

5AM Partners II, LLC

Signature: /s/ Andrew J. Schwab
Name/Title: By Andrew J. Schwab, Managing Member
Date: 09/24/2026

5AM Ventures II, L.P.

Signature: /s/ Andrew J. Schwab
Name/Title: By 5AM Partners II, LLC, its General Partner, By
Andrew J. Schwab, Managing Member
Date: 09/24/2026

5AM Co-Investors II, L.P.

Signature: /s/ Andrew J. Schwab
Name/Title: By 5AM Partners II, LLC, its General Partner, By
Andrew J. Schwab, Managing Member
Date: 09/24/2026

Andrew J. Schwab

Signature: /s/ Andrew J. Schwab
Name/Title: Andrew J. Schwab
Date: 09/24/2026

Kush Parmar

Signature: /s/ Kush Parmar
Name/Title: Kush Parmar
Date: 09/24/2026

John D. Diekman

Signature: /s/ John D. Diekman
Name/Title: John D. Diekman
Date: 09/24/2026

Scott M. Rocklage

Signature: /s/ Scott M. Rocklage
Name/Title: Scott M. Rocklage
Date: 09/24/2026