

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

**FORM S-8**

REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933

**SKYE BIOSCIENCE,  
INC.**

(Exact name of Registrant as specified in its charter)

**Nevada**

(State or other jurisdiction  
of incorporation or organization)

**45-0692882**

(I.R.S. Employer  
Identification Number)

**11250 El Camino Real, Suite 100, San Diego, California 92130**

(Address of Principal Executive Offices) (Zip Code)

**Skye Bioscience, Inc. 2014 Amended and Restated Omnibus Incentive Plan  
Skye Bioscience, Inc. 2022 Employee Stock Purchase Plan**

(Full Title of the Plan)

**Punit Dhillon  
Chief Executive Officer  
Skye Bioscience, Inc.  
11250 El Camino Real, Suite 100  
San Diego, CA 92130  
(858) 410-0266**

(Name, Address, and Telephone number, Including Area Code, of Agent for Service)

*Copies to:*

**Steven G. Rowles  
Morrison & Foerster LLP  
12531 High Bluff Drive, #100  
San Diego, CA 92130  
(858) 720-5100**

**Emily K. Beers  
Morrison & Foerster LLP  
2100 L Street NW, Suite 900  
Washington, D.C. 20037  
(202) 887-1563**

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

## EXPLANATORY NOTE

This Registration Statement on Form S-8 is being filed with the Securities and Exchange Commission (the "Commission") in accordance with General Instruction E to Form S-8 for the purpose of registering an additional 617,462 shares of common stock of Skye Bioscience, Inc. (the "Registrant") issuable or which may become issuable under the Skye Bioscience, Inc. 2014 Amended and Restated Omnibus Incentive Plan (the "2014 Plan") and 80,016 additional shares of common stock under the Skye Bioscience, Inc. 2022 Employee Stock Purchase Plan (the "2022 ESPP"), in each case, pursuant to the evergreen provisions of such plans.

Pursuant to General Instruction E of Form S-8, the contents of the prior registration statements on Form S-8, File No. 333-276211, File No. 333-245177, File No. 333-227860, and File No. 333-226259, previously filed with respect to the 2014 Plan and the 2022 ESPP, are incorporated into this Registration Statement by reference to the extent not modified or superseded hereby or by any subsequently filed document, which is incorporated by reference herein or therein.

## PART II

### INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

#### Item 3. Incorporation of Documents by Reference.

The following documents, which are on file with the Commission, are incorporated herein by reference:

- a. the Registrant's Annual Report on Form 10-K for the fiscal year ended December 31, 2023, as filed with the Commission on [March 22, 2024](#);
- b. the Registrant's Quarterly Reports on Form 10-Q for the fiscal quarters ended March 31, 2024 and June 30, 2024, as filed with the Commission on [May 10, 2024](#) and [August 9, 2024](#), respectively;
- c. the Registrant's Current Reports on Form 8-K (other than information furnished rather than filed) filed with the Commission on [January 29, 2024](#), [February 12, 2024](#), [March 4, 2024](#), [March 13, 2024](#), [June 10, 2024](#) and [July 3, 2024](#); and
- d. the description of the Registrant's common stock contained in the Registrant's Registration Statement on [Form 8-A](#) filed with the Commission on April 10, 2024, pursuant to Section 12(b) of the Exchange Act, including any amendment or report filed for the purpose of updating such description.

All reports and other documents subsequently filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") (other than Current Reports on Form 8-K furnished pursuant to Item 2.02 or Item 7.01 of Form 8-K, including any exhibits included with such information, unless otherwise indicated therein) after the date of this Registration Statement, but prior to the filing of a post-effective amendment that indicates that all securities offered hereby have been sold or that deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference into this Registration Statement and to be a part hereof from the date of filing such documents. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

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**Item 8. Exhibits.**

<b>Exhibit Number</b>	<b>Description</b>
3.1	<a href="#">Articles of Incorporation of Registrant, as amended (incorporated by reference to Exhibit 3.1 to our Annual Report on Form 10-K filed on March 22, 2024)</a>
3.2	<a href="#">Amended and Restated Bylaws of Registrant (incorporated by reference to Exhibit 3.2 to our Report on Form 10-K filed on March 2, 2021)</a>
5.1*	<a href="#">Opinion of Fennemore Craig, P.C.</a>
10.1	<a href="#">Skye Bioscience, Inc. 2014 Omnibus Amended and Restated Incentive Plan (incorporated by reference to Appendix D to the Registrant's Definitive Proxy Statement filed on August 31, 2022)</a>
10.2	<a href="#">Amendment No. 1 to the Amended and Restated Skye Bioscience, Inc. 2014 Omnibus Incentive Plan (incorporated by reference to Exhibit 10.1 to the Registrant's Current Report on Form 8-K filed on October 3, 2023)</a>
10.3	<a href="#">Form of Stock Option Agreement under 2014 Amended and Restated Omnibus Incentive Plan (incorporated by reference to Exhibit 10.5 to our Current Report on Form 8-K filed on November 3, 2014)</a>
10.4	<a href="#">Form of Restricted Stock Unit Agreement under 2014 Amended and Restated Omnibus Incentive Plan (incorporated by reference to Exhibit 10.5 to our Annual Report on Form 10-K filed on March 28, 2022)</a>
10.5	<a href="#">Form of Stock Option Award Agreement - For Canadian Optionees under 2014 Amended and Restated Omnibus Incentive Plan (incorporated by reference to Exhibit 10.2 to our Quarterly Report on Form 10-Q filed on November 14, 2022)</a>
10.6	<a href="#">Skye Bioscience, Inc. 2022 Employee Stock Purchase Plan (incorporated by reference to Appendix C to the Registrant's Definitive Proxy Statement filed on August 31, 2022)</a>
23.1*	<a href="#">Consent of Fennemore Craig, P.C. (included in Exhibit 5.1)</a>
23.2*	<a href="#">Consent of Marcum LLP</a>
24.1*	<a href="#">Power of Attorney (included on signature page of this Registration Statement)</a>
107*	<a href="#">Filing Fee Table</a>

\* Filed herewith.

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**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of San Diego, state of California, on August 9, 2024.

**SKYE BIOSCIENCE, INC.**

By: /s/ Kaitlyn Arsenault

Name: Kaitlyn Arsenault

Title: Chief Financial Officer

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## POWER OF ATTORNEY

**KNOW ALL PERSONS BY THESE PRESENTS**, that each person whose signature appears below constitutes and appoints Punit Dhillon and/or Kaitlyn Arsenault as his or her true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for him or her and in his or her name, place, and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorney-in-fact and agent, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorney-in-fact and agent, or any of them, or his/her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated:

<b>Signature</b>	<b>Position</b>	<b>Date</b>
<u>/s/ Punit Dhillon</u> Punit Dhillon	Chief Executive Officer, Chairman of the Board, and Director (Principal Executive Officer)	August 9, 2024
<u>/s/ Kaitlyn Arsenault</u> Kaitlyn Arsenault	Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)	August 9, 2024
<u>/s/ Deborah Charych</u> Deborah Charych	Director	August 9, 2024
<u>/s/ Annalisa Jenkins</u> Annalisa Jenkins	Director	August 9, 2024
<u>/s/ Paul Grayson</u> Paul Grayson	Director	August 9, 2024
<u>/s/ Andrew J. Schwab</u> Andrew J. Schwab	Director	August 9, 2024
<u>/s/ Karen Smith</u> Karen Smith	Director	August 9, 2024

**Calculation of Filing Fee Table**

**Form S-8**  
(Form Type)

**Skye Bioscience, Inc.**  
(Exact Name of Registrant as Specified in its Charter)

**Table 1: Newly Registered Securities**

Security Type	Title of Securities to be Registered	Fee Calculation Rule	Amount to be Registered (1)	Proposed Maximum Offering Price Per Share(2)	Proposed Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee
Equity	Common stock \$0.001 par value per share, reserved for issuance under the 2014 Plan	457(c), 457(h)	617,462	\$5.36	\$ 3,309,596.32	\$0.00014760	\$ 488.50
Equity	Common stock, \$0.001 par value per share, reserved for issuance under the 2022 ESPP	457(c), 457(h)	80,016	\$5.36	\$ 428,885.76	\$0.00014760	\$ 63.30
Total Offering Amounts			697,478		\$ 3,738,482.08		\$ 551.80
Total Fee Offsets							N/A
Net Fee Due							\$ 551.80

- (1) Pursuant to Rule 416(a) of the Securities Act of 1933, as amended, this Registration Statement shall also cover any additional shares of the Registrant's common stock that become issuable under the Skye Bioscience, Inc. 2014 Amended and Restated Omnibus Incentive Plan (the "2014 Plan") and Skye Bioscience, Inc. 2022 Employee Stock Purchase Plan (the "2022 ESPP") by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without the Registrant's receipt of consideration that increases the number of the Registrant's outstanding shares of common stock.
- (2) Estimated solely for the purpose of calculating the amount of the registration fee. Pursuant to Rule 457(c) and 457(h) under the Securities Act, the proposed maximum offering price per share and the proposed maximum offering price have been determined on the basis of the average of the high and low sales prices of the Common Stock as reported on the Nasdaq Global Market on August 2, 2024, which date is within five business days prior to filing this Registration Statement.

INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM'S CONSENT

We consent to the incorporation by reference in this Registration Statement of Skye Bioscience, Inc. on Form S-8 of our report dated March 21, 2024 with respect to our audits of the consolidated financial statements of Skye Bioscience, Inc. as of December 31, 2023 and 2022 and for the two years ended December 31, 2023 appearing in the Annual Report on Form 10-K of Skye Bioscience, Inc., for the year ended December 31, 2023.

/s/ Marcum LLP

Marcum LLP  
East Hanover, NJ  
August 9, 2024

7800 Rancharrah Parkway  
Reno, NV 89511  
PH (775) 788-2200 | FX (775) 786-1177  
fennemorelaw.com

August 9, 2024

Skye Bioscience, Inc.  
11250 El Camino Real  
Suite 100  
San Diego, CA 92130

Re: Registration Statement on U.S. Securities Exchange Commission form S-8

Ladies and Gentlemen:

We have acted as special Nevada counsel for Skye Bioscience, Inc., a Nevada corporation (the “*Company*”). Our opinion is provided below regarding certain matters in connection with the registration under the Securities Act of 1933, as amended (the “*Act*”), by the Company, by means of a registration statement on Form S-8 (as it may be amended and supplemented, the “*Registration Statement*”), filed with the United States Securities and Exchange Commission (the “*Commission*”) relating to the registration of 617,462 shares of common stock, par value \$0.001 per share of the Company, issuable pursuant to the Skye Bioscience, Inc. 2014 Amended and Restated Omnibus Incentive Plan as amended by that certain First Amendment to the 2014 Amended and Restated Omnibus Incentive Plan (collectively, the “*Plan*”), and 80,016 shares of common stock, par value \$0.001 per share of the Company, issuable pursuant to the Skye Bioscience, Inc. 2022 Employee Stock Purchase Plan (the “*ESPP*”), to be issued pursuant to the evergreen provisions of each such plan (collectively the “*Shares*”).

In connection with this opinion, we have examined and relied upon (i) the Registration Statement, (ii) the Plan, (iii) the ESPP and (iv) the Company’s Articles of Incorporation and Bylaws, each as amended and currently in effect, and the originals or copies certified to our satisfaction of such other documents, records, certificates, memoranda and other instruments as in our judgment are necessary or appropriate to enable us to render the opinion expressed below.

We have examined originals or copies of such corporate records and certificates of public officials as we have deemed necessary or advisable for purposes of this opinion. We have relied upon the certificates of all corporate officials with respect to the accuracy of all matters contained therein. We have assumed the authenticity of all documents submitted to us as originals, the genuineness of all signatures, the legal capacity of natural persons and the

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# FENNEMORE.

Skye Bioscience, Inc.

August 9, 2024

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conformity to originals of all copies of all documents submitted to us. We have assumed that at the time of issuance of the Shares, the Company will have sufficient authorized, but unissued, shares of its common stock available to allow for such issuance.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the Shares have been duly authorized and, when issued and delivered pursuant to the Plan or the ESPP, as applicable, or pursuant to stock options or other instruments that have been issued pursuant to the Plan, the Shares will be validly issued, fully paid and nonassessable.

Our opinion is limited to the laws of the State of Nevada. We express no opinion as to the effect of the law of any other jurisdiction. Our opinion is rendered as of the date hereof, and we assume no obligation to advise you of changes in law or fact (or the effect thereof on the opinions expressed herein) that hereafter may come to our attention.

We hereby consent to the inclusion of this opinion as Exhibit 5.1 to the Registration Statement and to the references to our firm therein. In giving our consent, we do not admit that we are in the category of persons whose consent is required under Section 7 of the Act or the rules and regulations thereunder.

Very truly yours,

/s/ Fennemore Craig, P.C.

Fennemore Craig, P.C.