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

FORM S-8
REGISTRATION STATEMENT
Under the Securities Act of 1933

Rapid Micro Biosystems, Inc.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

20-8121647
(IRS Employer
Identification No.)

25 Hartwell Avenue
Lexington, MA
(Address of principal executive offices)

02421
(Zip code)

Rapid Micro Biosystems, Inc. 2021 Incentive Award Plan
Rapid Micro Biosystems, Inc. 2021 Employee Stock Purchase Plan
Rapid Micro Biosystems, Inc. 2023 Inducement Plan
(Full title of the plan)

Robert Spignesi
President and Chief Executive Officer
Rapid Micro Biosystems, Inc.
25 Hartwell Avenue
Lexington, MA 02421
(Name and address of agent for service)

(978) 349-3200
(Telephone number, including area code, of agent for service)

Copy to:
Edwin O'Connor, Esq.
Adam Johnson, Esq.
Goodwin Procter LLP
620 Eighth Avenue
New York, NY 10018
(212) 813-8800

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” and “smaller reporting company,” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer	☐	Accelerated filer	☐
Non-accelerated filer	☒	Smaller reporting company	☒
		Emerging growth company	☒

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 (this “Registration Statement”) is being filed by Rapid Micro Biosystems, Inc. (the “Registrant”) for the purpose of registering (i) 1,886,462 additional shares of Class A common stock, par value \$0.01 per share (“Common Stock”), under the Registrant’s 2021 Incentive Award Plan (the “2021 Plan”), which were added on January 1, 2025 as a result of an automatic annual increase provision therein and (ii) 377,292 additional shares of Common Stock under the Registrant’s 2021 Employee Stock Purchase Plan (the “ESPP”), which were added on January 1, 2025 as a result of an automatic annual increase provision therein.

This Registration Statement also registers 476,000 additional shares of Common Stock under the Registrant’s 2023 Inducement Plan, as amended by the Second Amendment to the Inducement Plan (as amended, the “Inducement Plan”), pursuant to which the aggregate number of shares of Common Stock reserved and available for issuance under the Inducement Plan was increased by 476,000 shares.

All of the additional shares of Common Stock registered on this Registration Statement are of the same class as other securities for which a registration statement is effective. This Registration Statement is being filed for the purpose of increasing the number of shares of Common Stock issuable pursuant to the 2021 Plan, ESPP and Inducement Plan, and re-registering shares of Common Stock underlying forfeited restricted stock units previously granted under the 2021 Plan and the Inducement Plan. The Registrant’s registration statements on [Form S-8 filed on July 16, 2021 \(File No. 333-257981\)](#), relating to the 2021 Plan and the ESPP, and on [May 4, 2023 \(File No. 333-271659\)](#), relating to the Inducement Plan, are hereby incorporated by reference pursuant to General Instruction E.

PART I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

The information called for in Part I of Form S-8 is not being filed with or included in this Registration Statement (by incorporation by reference or otherwise) in accordance with the rules and regulations of the Securities and Exchange Commission (the “Commission”).

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference.

The following documents, which have been filed with the Commission by the Registrant, pursuant to the Securities Act of 1933, as amended (the “Securities Act”), and the Securities Exchange Act of 1934, as amended (the “Exchange Act”), as applicable, are hereby incorporated by reference in, and shall be deemed to be a part of, this Registration Statement:

- (a) The Registrant’s Annual Report on Form 10-K for its fiscal year ended December 31, 2024, filed with the Commission on February 28, 2025 (Commission File No. 001-40592).
- (b) The description of the Registrant’s Common Stock contained in the Registrant’s Registration Statement on [Form 8-A \(File No. 001-40592\) filed with the Commission on July 12, 2021](#), including any amendments or reports filed for the purpose of updating such description, including Exhibit 4.7 to the Registrant’s Annual Report on Form 10-K for the fiscal year ended December 31, 2023, as filed with the Commission on March 1, 2024.

All documents subsequently filed by the Registrant pursuant to Sections 13(a), 13(c), 14, and 15(d) of the Exchange Act subsequent to the date of this Registration Statement and prior to the filing of a post-effective amendment to this Registration Statement which indicates that all securities offered hereby have been sold or which deregisters all such securities then remaining unsold, shall be deemed to be incorporated by reference herein and to be a part hereof from the date of filing of such documents.

Any statement contained in this Registration Statement, in an amendment hereto or 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 subsequently filed amendment to this Registration Statement or in any document that 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, except as to such specific section of such statements as set forth therein.

Item 4. Description of Securities.

Not applicable.

Item 5. Interests of Named Experts and Counsel.

Not applicable.

Item 6. Indemnification of Directors and Officers.

The following summary is qualified in its entirety by reference to the complete copy of the Delaware General Corporation Law (the “DGCL”) and the Registrant’s Restated Certificate of Incorporation and Amended and Restated Bylaws.

Section 102 of the DGCL permits a corporation to eliminate or limit the personal liability of directors to the corporation or its stockholders for monetary damages for a breach of fiduciary duty as a director, except where the director breached his duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit. The Registrant’s Restated Certificate of Incorporation provides that no director of the Registrant shall be personally liable to it or its stockholders for monetary damages for any breach of fiduciary duty as a director, notwithstanding any provision of law imposing such liability, except to the extent that the DGCL prohibits the elimination or limitation of liability of directors for breaches of fiduciary duty.

Section 145 of the DGCL provides that a corporation has the power to indemnify a director, officer, employee, or agent of the corporation, or a person serving at the request of the corporation for another corporation, partnership, joint venture, trust or other enterprise in related capacities against expenses (including attorneys’ fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by the person in connection with an action, suit or proceeding to which he or she was or is a party or is threatened to be made a party to any threatened, ending or completed action, suit or proceeding by reason of such position, if such person acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, in any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful, except that, in the case of actions brought by or in the right of the corporation, no indemnification shall be made with respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or other adjudicating court determines that, despite the adjudication of liability but in view of all of the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

The Registrant’s Amended and Restated Bylaws provide that the Registrant will indemnify each person who was or is a party or threatened to be made a party to any threatened, pending or completed action, suit or proceeding (other than an action by or in the right of it) by reason of the fact that he or she is or was, or has agreed to become, a director or officer, or is or was serving, or has agreed to serve, at the Registrant’s request as a director, officer, partner, employee or trustee of, or in a similar capacity with, another corporation, partnership, joint venture, trust or other enterprise (all such persons being referred to as an “Indemnitee”), or by reason of any action alleged to have been taken or omitted in such capacity, against all expenses (including attorneys’ fees), judgments, fines and amounts paid in settlement actually and reasonably incurred in connection with such action, suit or proceeding and any appeal therefrom, if such Indemnitee acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, the Registrant’s best interests, and, with respect to any criminal action or proceeding, he or she had no reasonable cause to believe his or her conduct was unlawful. The Registrant’s Amended and Restated Bylaws

provide that the Registrant will indemnify any Indemnitee who was or is a party to an action or suit by or in the right of the Registrant to procure a judgment in the Registrant's favor by reason of the fact that the Indemnitee is or was, or has agreed to become, a director or officer, or is or was serving, or has agreed to serve, at the Registrant's request as a director, officer, partner, employee or trustee of, or in a similar capacity with, another corporation, partnership, joint venture, trust or other enterprise, or by reason of any action alleged to have been taken or omitted in such capacity, against all expenses (including attorneys' fees) and, to the extent permitted by law, amounts paid in settlement actually and reasonably incurred in connection with such action, suit or proceeding, and any appeal therefrom, if the Indemnitee acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, the Registrant's best interests, except that no indemnification shall be made with respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to the Registrant, unless a court determines that, despite such adjudication but in view of all of the circumstances, he or she is entitled to indemnification of such expenses. Notwithstanding the foregoing, to the extent that any Indemnitee has been successful, on the merits or otherwise, he or she will be indemnified by the Registrant against all expenses (including attorneys' fees) actually and reasonably incurred in connection therewith. Expenses must be advanced to an Indemnitee under certain circumstances.

The Registrant has entered into indemnification agreements with each of the Registrant's directors and executive officers. These indemnification agreements may require the Registrant, among other things, to indemnify its directors and executive officers for some expenses, including attorneys' fees, judgments, fines and settlement amounts incurred by a director or executive officer in any action or proceeding arising out of his or her service as one of the Registrant's directors or executive officers, or any other company or enterprise to which the person provides services at the Registrant's request.

The Registrant maintains a general liability insurance policy that covers certain liabilities of directors and officers of the Registrant's corporation arising out of claims based on acts or omissions in their capacities as directors or officers.

Item 7. Exemption from Registration Claimed.

Not applicable.

Item 8. Exhibits.

Exhibit Number	Description of Exhibit
<u>4.1</u>	<u>Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to the Registrant's Annual Report on Form 10-K (File No. 001-40952) filed on February 28, 2025).</u>
<u>4.2</u>	<u>Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 to the Registrant's Current Report on Form 8-K (File No. 001-40952) filed on July 21, 2021).</u>
<u>5.1+</u>	<u>Opinion of Goodwin Procter LLP.</u>
<u>23.1+</u>	<u>Consent of PricewaterhouseCoopers LLP.</u>
<u>23.2+</u>	<u>Consent of Goodwin Procter LLP (included in Exhibit 5.1).</u>
<u>24.1</u>	<u>Power of Attorney (included on signature page).</u>

<u>99.1</u>	<u>Rapid Micro Biosystems, Inc. 2021 Incentive Award Plan and forms of award agreements thereunder (incorporated by reference to Exhibit 10.2 to Amendment No. 1 to the Registrant's Registration Statement on Form S-1 (Reg. No. 333-257431) filed on July 12, 2021).</u>
<u>99.2</u>	<u>Rapid Micro Biosystems, Inc. 2021 Employee Stock Purchase Plan (incorporated by reference to Exhibit 10.3 to Amendment No. 1 to the Registrant's Registration Statement on Form S-1 (Reg. No. 333-257431) filed on July 12, 2021).</u>
<u>99.3</u>	<u>Rapid Micro Biosystems, Inc. 2023 Inducement Plan and forms of award agreements thereunder (incorporated by reference to Exhibit 99.1 to the Registrant's Registration Statement on Form S-8 (File No. 333-271659) filed on May 4, 2023).</u>
<u>99.4</u>	<u>First Amendment to Rapid Micro Biosystems, Inc. 2023 Inducement Plan (incorporated by reference to Exhibit 10.21 to the Registrant's Annual Report on Form 10-K (File No. 001-40952) filed on March 1, 2024).</u>
<u>99.5</u>	<u>Second Amendment to Rapid Micro Biosystems, Inc. 2023 Inducement Plan (incorporated by reference to Exhibit 10.21 to the Registrant's Annual Report on Form 10-K (File No. 001-40952) filed on February 28, 2025).</u>
<u>107+</u>	<u>Fee Filing Table.</u>

+ Filed herewith

Item 9. Undertakings.

(a) The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the Registration Statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective Registration Statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the Registration Statement or any material change to such information in the Registration Statement;

provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) of this section do not apply if the Registration Statement is on Form S-8, and the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in the Registration Statement.

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof; and

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

- (b) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (h) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act, 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 Lexington, Commonwealth of Massachusetts, on the 28th day of February, 2025.

RAPID MICRO BIOSYSTEMS, INC.

By: /s/ Robert Spignesi
Robert Spignesi
President and Chief Executive Officer

POWER OF ATTORNEY

We, the undersigned officers and directors of Rapid Micro Biosystems, Inc., hereby severally constitute and appoint Robert Spignesi and Sean Wirtjes, and each of them singly (with full power to each of them to act alone), our true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution in each of them for him or her and in his or her name, place and stead, and in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement (or any other registration statement for the same offering that is to be effective upon filing pursuant to Rule 462(b) under the Securities Act), and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite or necessary to be done in and about the premises, as full to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

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

Signature	Title	Date
<u>/s/ Robert Spignesi</u> Robert Spignesi	President, Chief Executive Officer and Director (principal executive officer)	February 28, 2025
<u>/s/ Sean Wirtjes</u> Sean Wirtjes	Chief Financial Officer (principal financial officer and principal accounting officer)	February 28, 2025
<u>/s/ Kirk D. Malloy</u> Kirk D. Malloy, Ph.D.	Chair of the Board of Directors	February 28, 2025
<u>/s/ Richard Kollender</u> Richard Kollender	Director	February 28, 2025
<u>/s/ Melinda Litherland</u> Melinda Litherland	Director	February 28, 2025
<u>/s/ Inese Lowenstein</u> Inese Lowenstein	Director	February 28, 2025
<u>/s/ Natale Ricciardi</u> Natale Ricciardi	Director	February 28, 2025
<u>/s/ Jeffrey Schwartz</u> Jeffrey Schwartz	Director	February 28, 2025

Calculation of Filing Fee Table

Form S-8
(Form Type)

Rapid Micro Biosystems, Inc.
(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered Securities

Security Type	Security Class Title	Fee Calculation Rule	Amount Registered ⁽¹⁾	Proposed Maximum Offering Price Per Unit ⁽²⁾	Maximum Aggregate Offering Price ⁽²⁾	Fee Rate	Amount of Registration Fee
Equity	Class A common Stock, par value \$0.01 per share, issuable pursuant to the Registrant's 2021 Incentive Award Plan	Rule 457(c) and Rule 457(h)	2,578,411 shares ⁽³⁾	\$2.63	\$6,781,220.93	0.00015310	\$1,038.21
Equity	Class A common Stock, par value \$0.01 per share, issuable pursuant to the Registrant's 2021 Employee Stock Purchase Plan	Rule 457(c) and Rule 457(h)	377,292 shares ⁽⁴⁾	\$2.63	\$992,277.96	0.00015310	\$1521.92
Equity	Class A common Stock, par value \$0.01 per share, issuable pursuant to the Registrant's 2023 Inducement Plan, as amended	Rule 457(c) and Rule 457(h)	538,267 shares ⁽⁵⁾	\$2.63	\$1,415,642.21	0.00015310	\$216.74
Total Offering Amounts					\$9,189,141.10		\$1,406.87
Total Fee Offsets							—
Net Fee Due							\$1,406.87

- (1) Pursuant to Rule 416(a) and Rule 416(b) under the Securities Act of 1933, as amended (the "Securities Act"), this Registration Statement shall also cover additional shares of the Registrant's Class A common stock, par value \$0.01 per share (the "Common Stock"), which become issuable under the Registrant's 2021 Incentive Award Plan (the "2021 Plan"), 2021 Employee Stock Purchase Plan (the "ESPP"), and 2023 Inducement Plan, as amended (the "Inducement Plan") by reason of any stock split, stock dividend, recapitalization, or other similar transaction.
- (2) Estimated solely for the purpose of computing the registration fee and based on the average high and low sale prices of the Common Stock as reported on the Nasdaq Capital Market on February [25], 2025 in accordance with Rule 457(c) and (h) under the Securities Act.
- (3) Consists of (i) 1,866,462 shares representing an automatic increase to the number of shares of Common Stock available for issuance under the 2021 Plan, in accordance with the automatic annual increase provision therein, which was effective as of January 1, 2025, and (ii) 711,949 shares of Common Stock underlying restricted stock units previously granted under the 2021 Plan and subsequently forfeited, which are being re-registered on this Registration Statement..
- (4) Consists of 377,292 shares representing an automatic increase to the number of shares of Common Stock available for issuance under the ESPP, in accordance with the automatic annual increase provision therein, which was effective as of January 1, 2025.

- (5) Consists of (i) 476,000 shares representing an increase to the number of shares of Common Stock reserved and available for issuance under the Inducement Plan, pursuant to the Second Amendment to the Inducement Plan adopted by the Registrant's Compensation Committee of the Registrant's Board of Directors on February 24, 2025, and (ii) 62,267 shares of Common Stock underlying restricted stock units previously granted under the Inducement Plan and subsequently forfeited, which are being re-registered on this Registration Statement.

February 28, 2025

Rapid Micro Biosystems, Inc.
25 Hartwell Avenue
Lexington, MA 02421

Re: Securities Being Registered under Registration Statement on Form S-8

We have acted as your counsel in connection with your filing of a Registration Statement on Form S-8 (the “Registration Statement”) pursuant to the Securities Act of 1933, as amended (the “Securities Act”), on or about the date hereof relating to an aggregate of 3,493,970 shares (the “Shares”) of Class A Common Stock, par value \$0.01 per share (“Common Stock”), of Rapid Micro Biosystems, Inc., a Delaware corporation (the “Company”), that may be issued pursuant to the Company’s 2021 Incentive Award Plan, 2021 Employee Stock Purchase Plan and 2023 Inducement Plan, as amended (collectively, the “Plans”).

We have reviewed such documents and made such examination of law as we have deemed appropriate to give the opinion set forth below. We have relied, without independent verification, on certificates of public officials and, as to matters of fact material to the opinion set forth below, on certificates of officers of the Company.

For purposes of the opinion set forth below, we have assumed that, at the time Shares are issued, the total number of then unissued Shares, when added to the number of shares of Common Stock issued, subscribed for, or otherwise committed to be issued, does not exceed the number of shares of Common Stock authorized by the Company’s certificate of incorporation.

The opinion set forth below is limited to the Delaware General Corporation Law.

Based on the foregoing, we are of the opinion that the Shares have been duly authorized and, when delivered against payment therefor in accordance with the terms of the Plans, will be validly issued, fully paid and nonassessable.

This opinion letter and the opinion it contains shall be interpreted in accordance with the Core Opinion Principles as published in 74 *Business Lawyer* 815 (Summer 2019).

We hereby consent to the inclusion of this opinion as Exhibit 5.1 to the Registration Statement. 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 Securities Act or the rules and regulations thereunder.

Very truly yours,

/s/ Goodwin Procter LLP

GOODWIN PROCTER LLP

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of Rapid Micro Biosystems, Inc. of our report dated February 28, 2025 relating to the financial statements, which appears in Rapid Micro Biosystems, Inc.'s Annual Report on Form 10-K for the year ended December 31, 2024.

/s/ PricewaterhouseCoopers LLP
Boston, Massachusetts
February 28, 2025