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

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**FORM S-8  
REGISTRATION STATEMENT**

*Under  
The Securities Act of 1933*

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**MONTE ROSA THERAPEUTICS, INC.**  
(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**84-3766197**  
(I.R.S. Employer  
Identification Number)

**645 Summer Street, Suite 102  
Boston, Massachusetts 02210**  
(Address of Principal Executive Offices)

**Monte Rosa Therapeutics, Inc. 2020 Stock Option and Grant Plan  
Monte Rosa Therapeutics, Inc. 2021 Stock Option and Incentive Plan  
Monte Rosa Therapeutics, Inc. 2021 Employee Stock Purchase Plan**  
(Full Title of the Plans)

**Markus Warmuth, M.D.**  
**President and Chief Executive Officer**  
**Monte Rosa Therapeutics, Inc.**  
**645 Summer Street, Suite 201**  
**Boston, Massachusetts 02210**  
**(617) 949-2643**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

*Copies to:*  
**Robert E. Puopolo, Esq.**  
**Goodwin Procter LLP**  
**100 Northern Avenue**  
**Boston, Massachusetts 02210**  
**(617) 570-1000**

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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 checked="" 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.

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## Statement of Incorporation by Reference

This Registration Statement on Form S-8 is filed to register the offer and sale of (i) an additional 2,326,798 shares of the Registrant's common stock, \$0.0001 par value per share, to be issued under the Registrant's 2021 Stock Option and Incentive Plan and (ii) an additional 439,849 shares of the Registrant's common stock, \$0.0001 par value per share, to be issued under the Registrant's 2021 Employee Stock Purchase Plan. This Registration Statement incorporates by reference the contents of the registration statement on [Form S-8](#), File No. 333- 257406, filed by the Registrant on June 25, 2021, and the registration relating to the Registrant's 2021 Stock Option and Incentive Plan and 2021 Employee Stock Purchase Plan pursuant to General Instruction E.

### Part II Information Required in the Registration Statement

Item 8. Exhibits.

See the Exhibit Index below for a list of exhibits filed as part of this registration statement on Form S-8, which Exhibit Index is incorporated herein by reference.

#### EXHIBIT INDEX

Exhibit No.	Description
4.1	<a href="#">Form of Fourth Amended and Restated Certificate of Incorporation (Incorporated by reference to Exhibit 3.2 to the Registrant's Registration Statement on Form S-1, as amended (File No. 333-256773)).</a>
4.2	<a href="#">Form of Amended and Restated By-laws (Incorporated by reference to Exhibit 3.4 to the registrant's Registration Statement on Form S-1, as amended (File No. 333-256773)).</a>
4.3	<a href="#">Second Amended and Restated Investors' Rights Agreement among the registrant and certain of its stockholders, dated March 11, 2021 (Incorporated by reference to Exhibit 4.1 to the registrant's Registration Statement on Form S-1, as amended (File No. 333-256773)).</a>
4.4	<a href="#">Description of Securities (incorporated by reference to Exhibit 4.2 of the Registrant's Annual Report on Form 10-K (File No. 001-40522) filed with the Securities and Exchange Commission on March 29, 2022).</a>
5.1*	<a href="#">Opinion of Goodwin Procter LLP.</a>
23.1*	<a href="#">Consent of Deloitte &amp; Touche LLP, Independent Registered Public Accounting Firm.</a>
23.2*	<a href="#">Consent of Goodwin Procter LLP (included in Exhibit 5.1).</a>
24.1*	<a href="#">Power of Attorney (included on signature page to this registration statement).</a>
99.1	<a href="#">2021 Stock Option and Incentive Plan and forms of award agreements thereunder (Incorporated by reference to Exhibit 10.2 to the registrant's Registration Statement on Form S-1, as amended (File No. 333-256773)).</a>
99.2	<a href="#">2021 Employee Stock Purchase Plan (Incorporated by reference to Exhibit 10.3 to the registrant's Registration Statement on Form S-1, as amended (File No. 333-256773)).</a>
107*	<a href="#">Filing Fee Table.</a>

\* Filed herewith.

## 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 Boston, Commonwealth of Massachusetts, on the 29<sup>th</sup> day of March, 2022.

### MONTE ROSA THERAPEUTICS, INC.

By: /s/ Markus Warmuth

Markus Warmuth

*President and Chief Executive Officer*

## POWER OF ATTORNEY AND SIGNATURES

KNOW ALL BY THESE PRESENT, that each individual whose signature appears below hereby constitutes and appoints Markus Warmuth and Ajim Tamboli, and each of them, either of whom may act without the joinder of the other, as his or her true and lawful attorneys-in-fact and agents 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 on Form S-8, and to file the same, with all exhibits thereto, and all documents in connection therewith, with the Securities and Exchange Commission granting unto each 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 and about the premises, as fully 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 his or their 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 and on the date indicated below.

Name	Title	Date
<u>/s/ Markus Warmuth</u> Markus Warmuth	<i>President, Chief Executive Officer and Director (Principal Executive Officer)</i>	March 29, 2022
<u>/s/ Ajim Tamboli</u> Ajim Tamboli	<i>Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)</i>	March 29, 2022
<u>/s/ Alexander Mayweg</u> Alexander Mayweg	<i>Chairman and Director</i>	March 29, 2022
<u>/s/ Bradley J. Bolzon</u> Bradley J. Bolzon	<i>Director</i>	March 29, 2022
<u>/a/ Ali Behbahani</u> Ali Behbahani	<i>Director</i>	March 29, 2022
<u>/s/ Kimberly L. Blackwell</u> Kimberly L. Blackwell	<i>Director</i>	March 29, 2022
<u>/s/ Andrew Schiff</u> Andrew Schiff	<i>Director</i>	March 29, 2022
<u>/s/ Chandra P. Leo</u> Chandra P. Leo	<i>Director</i>	March 29, 2022
<u>/s/ Christine Siu</u> Christine Siu	<i>Director</i>	March 29, 2022



Goodwin Procter LLP  
100 Northern Ave.  
Boston, MA 02210  
goodwinlaw.com  
+1 617 570 1000

March 29, 2022

Monte Rosa Therapeutics, Inc.  
645 Summer Street, Suite 102  
Boston, MA 02210

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

We have acted as counsel to you 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 2,766,647 shares (the "Shares") of Common Stock, par value \$0.0001 per share ("Common Stock"), of Monte Rosa Therapeutics, Inc., a Delaware corporation (the "Company"), that may be issued pursuant to the Company's 2021 Stock Option and Incentive Plan and 2021 Employee Stock Purchase Plan (collectively, the "Plans").

We have reviewed such documents and made such examination of law as we have deemed appropriate to give the opinions 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.

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

For purposes of the opinion set forth below, we have assumed that no event occurs that causes the number of authorized shares of Common Stock available for issuance by the Company to be less than the number of then unissued Shares.

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

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 consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated March 29, 2022, relating to the financial statements of Monte Rosa Therapeutics, Inc. appearing in the Annual Report on Form 10-K of Monte Rosa Therapeutics, Inc. for the year ended December 31, 2021.

/s/ Deloitte & Touche LLP

Boston, Massachusetts

March 29, 2022

## CALCULATION OF REGISTRATION FEE

Form S-8  
(Form Type)

**Monte Rosa Therapeutics, Inc.**  
(Exact name of Registrant as Specified in its Charter)

## Newly Registered Securities

Security Type	Security Class Title	Fee Calculation Rule	Amount Registered(1)	Proposed Maximum Offering Price Per Share	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee
Equity	Common Stock, \$0.0001 par value per share, reserved for issuance pursuant to the Monte Rosa Therapeutics, Inc. 2021 Stock Option and Incentive Plan	Rule 457(c) and Rule 457(h)	2,326,798 shares (2)	\$11.70 (3)	\$27,223,536.60 (3)	\$0.0000927	\$2,523.62
Equity	Common Stock, \$0.0001 par value per share, reserved for issuance pursuant to the Monte Rosa Therapeutics, Inc. 2021 Employee Stock Purchase Plan	Rule 457(c) and Rule 457(h)	439,849 shares (4)	\$11.70 (3)	\$5,146,233.30 (3)	\$0.0000927	\$477.06
Total Offering Amounts						\$32,369,769.90	—
Total Fees Previously Paid							—
Total Fee Offsets							—
Net Fee Due							\$3,000.68

- (1) In accordance with Rule 416 under the Securities Act of 1933, as amended, this registration statement shall be deemed to cover any additional securities that may from time to time be offered or issued to prevent dilution resulting from stock splits, stock dividends or similar transactions effected without the receipt of consideration which results in an increase in the number of our outstanding shares of common stock.
- (2) Represents an automatic increase to the number of shares available for issuance under the 2021 Stock Option and Incentive Plan (the “2021 Plan”), of 2,326,798 effective as of January 1, 2022. Shares available for issuance under the 2021 Plan were previously registered on registration statements on Form S-8 filed with the Securities and Exchange Commission on June 25, 2021 (File No. 333-257406).
- (3) Estimated solely for the purpose of calculating the registration fee pursuant to Rules 457(c) and 457(h) of the Securities Act of 1933, as amended. The price per share and aggregate offering price are calculated on the basis of \$11.70, the average of the high and low price of the registrant’s Common Stock as reported on the NASDAQ Global Market on March 23, 2022.
- (4) Represents an automatic increase to the number of shares available for issuance under the 2021 Employee Stock Purchase Plan (the “2021 ESPP”), of 439,849 effective as of January 1, 2022. Shares available for issuance under the 2021 ESPP were previously registered on registration statements on Form S-8 filed with the Securities and Exchange Commission on June 25, 2021 (File No. 333-257406).