

Registration No. 333-239400  
Registration No. 333-255048  
Registration No. 333-263469  
Registration No. 333-270170  
Registration No. 333-272269  
Registration No. 333-277451  
Registration No. 333-279721  
Registration No. 333-285493

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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-8 REGISTRATION STATEMENT NO. 333-239400  
POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-8 REGISTRATION STATEMENT NO. 333-255048  
POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-8 REGISTRATION STATEMENT NO. 333-263469  
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POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-8 REGISTRATION STATEMENT NO. 333-285493

*UNDER  
THE SECURITIES ACT OF 1933*

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**REPAIRE THERAPEUTICS INC.**

(Exact name of registrant as specified in its charter)

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Québec  
(State or other jurisdiction of  
incorporation or organization)

Not applicable  
(I.R.S. Employer  
Identification No.)

7171 Frederick-Banting, Building 2,  
Suite 270  
St-Laurent, Québec, Canada  
(Address of Principal Executive Offices)

H4S 1Z9  
(Zip Code)

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Amended and Restated Option Plan  
Repare Therapeutics 2020 Equity Incentive Plan  
Repare Therapeutics 2020 Employee Share Purchase Plan  
New Hire Inducement Stock Option Grant  
Repare Therapeutics Inc. 2024 Inducement Plan  
(Full title of the plans)

Steve Forte  
President  
Repare Therapeutics Inc.  
1 Broadway, 15th Floor  
Cambridge, MA 02142  
+1 857 412 7018

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

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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

Non-accelerated filer

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.

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## DEREGISTRATION OF SECURITIES

These post-effective amendments (the “Post-Effective Amendments”) relate to the following registration statements on Form S-8 (collectively, the “Registration Statements”), which have been previously filed by Repare Therapeutics Inc., a corporation governed by the *Business Corporations Act* (Québec) (the “Company”), with the Securities and Exchange Commission (the “SEC”):

- Registration statement on [Form S-8](#) (File No. 333-239400), filed with the SEC on June 24, 2020, registering 7,734,448 common shares of the Company (“Common Shares”) in connection with the Company’s 2020 Equity Incentive Plan (the “2020 EIP”), the Company’s 2020 Employee Share Purchase Plan (the “2020 ESPP”) and the Company’s Amended and Restated Option Plan (the “Option Plan”).
- Registration statement on [Form S-8](#) (File No. 333-255048), filed with the SEC on April 6, 2021, registering 2,214,175 Common Shares in connection with the Company’s 2020 EIP and 2020 ESPP.
- Registration statement on [Form S-8](#) (File No. 333-263469), filed with the SEC on March 11, 2022, registering 2,511,009 Common Shares in connection with the Company’s 2020 EIP and 2020 ESPP.
- Registration statement on [Form S-8](#) (File No. 333-270170), filed with the SEC on March 1, 2023, registering 2,522,170 Common Shares in connection with the Company’s 2020 EIP and 2020 ESPP.
- Registration statement on [Form S-8](#) (File No. 333-272269), filed with the SEC on May 30, 2023, registering 240,000 Common Shares in connection with a new hire inducement stock option grant outside of the 2020 EIP.
- Registration statement on [Form S-8](#) (File No. 333-277451), filed with the SEC on February 28, 2024, registering 2,530,562 Common Shares in connection with the Company’s 2020 EIP and 2020 ESPP.
- Registration statement on [Form S-8](#) (File No. 333-279721), filed with the SEC on May 24, 2024, registering 350,000 Common Shares in connection with the Company’s 2024 Inducement Plan (the “Inducement Plan”).
- Registration statement on [Form S-8](#) (File No. 333-285493), filed with the SEC on March 3, 2025, registering 2,550,642 Common Shares in connection with the Company’s 2020 EIP and 2020 ESPP.

On November 14, 2025, the Company entered into an Arrangement Agreement (the “Agreement”) with XenoTherapeutics, Inc., a Massachusetts non-profit corporation (“Xeno”), Xeno Acquisition Corp., a Delaware corporation and wholly-owned subsidiary of Xeno (“Purchaser”), and solely for purposes of Section 9.15 thereof, XOMA Royalty Corporation, a Nevada corporation. Pursuant to the Agreement, on January 28, 2026, Purchaser acquired all of the issued and outstanding Common Shares in exchange for a cash payment per Common Share of approximately US\$2.20, which was calculated in accordance with the Agreement (the “Transaction”). In addition, each holder of Common Shares also received one non-transferable contingent value right for each Common Share, which shall represent the right to receive a pro rata portion of potential cash payments.

As a result of the Transaction, effective January 28, 2026, all offerings of the Company’s securities pursuant to the Registration Statements have been terminated by the Company. These post-effective amendments remove from registration any and all securities of the Company that were registered under the Registration Statements and remain unsold or otherwise unissued under the Registration Statements as of the date hereof.

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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 Montréal, Province of Québec, Canada, on January 28, 2026. No other person is required to sign this Post-Effective Amendment to the Registration Statements in reliance on Rule 478 of the Securities Act of 1933, as amended.

### REPARE THERAPEUTICS INC.

By: /s/ Steve Forte

Steve Forte  
President, Chief Executive Officer and Chief Financial  
Officer