

Registration No. 333-203749
Registration No. 333-210125
Registration No. 333-216575
Registration No. 333-223131
Registration No. 333-229885
Registration No. 333-236421
Registration No. 333-238039
Registration No. 333-253215
Registration No. 333-262800
Registration No. 333-266469
Registration No. 333-269844
Registration No. 333-277149
Registration No. 333-280405
Registration No. 333-284918

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

**POST-EFFECTIVE AMENDMENT NO. 1 TO:
FORM S-8 REGISTRATION STATEMENT NO. 333-203749
FORM S-8 REGISTRATION STATEMENT NO. 333-210125
FORM S-8 REGISTRATION STATEMENT NO. 333-216575
FORM S-8 REGISTRATION STATEMENT NO. 333-223131
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FORM S-8 REGISTRATION STATEMENT NO. 333-284918**

***UNDER
THE SECURITIES ACT OF 1933***

Blueprint Medicines Corporation

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation or organization)

45 Sidney Street
Cambridge, Massachusetts
(Address of Principal Executive Offices)

26-3632015
(I.R.S. Employer
Identification No.)

02139
(Zip Code)

**Blueprint Medicines Corporation 2011 Stock Option and Grant Plan
Blueprint Medicines Corporation 2015 Stock Option and Incentive Plan
Blueprint Medicines Corporation 2015 Employee Stock Purchase Plan
2015 Stock Option and Incentive Plan
2015 Employee Stock Purchase Plan
Blueprint Medicines Corporation 2020 Inducement Plan
Blueprint Medicines Corporation Amended and Restated 2020 Inducement Plan
2024 Stock Incentive Plan**
(Full titles of the plans)

Michael J. Tolpa
Treasurer
Blueprint Medicines Corporation
251 Little Falls Drive
Wilmington, Delaware 19808

(302) 636-5401

(Name, address and telephone number of agent for service)

Copies to:

Michael J. Aiello, Esq.
Sachin Kohli, Esq.
Weil, Gotshal & Manges LLP
767 Fifth Avenue
New York, New York 10153
(212) 310-8000

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.

**EXPLANATORY NOTE
DEREGISTRATION OF SHARES**

Blueprint Medicines Corporation, a Delaware corporation (the “Registrant”), is filing with the U.S. Securities and Exchange Commission these post-effective amendments (the “Post-Effective Amendments”) to deregister all shares of common stock, par value \$0.001 per share, of the Registrant (the “Shares”), previously registered under the following Registration Statements on Form S-8 (the “Registration Statements”), together with any and all plan interests and other securities registered thereunder:

- Registration Statement No. [333-203749](#), filed on April 30, 2015, relating to the registration of 3,598,200 Shares under the Blueprint Medicines Corporation 2011 Stock Option and Grant Plan, Blueprint Medicines Corporation 2015 Stock Option and Incentive Plan and the Blueprint Medicines Corporation 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-210125](#), filed on March 11, 2016, relating to the registration of 1,359,802 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-216575](#), filed on March 9, 2017, relating to the registration of 1,656,273 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-223131](#), filed on February 21, 2018, relating to the registration of 2,178,876 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-229885](#), filed on February 26, 2019, relating to the registration of 2,201,851 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-236421](#), filed on February 13, 2020, relating to the registration of 2,463,610 Shares under 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-238039](#), filed on May 6, 2020, relating to the registration of 1,000,000 Shares under the Blueprint Medicines Corporation 2020 Inducement Plan;
- Registration Statement No. [333-253215](#), filed on February 17, 2021, relating to the registration of 2,889,676 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-262800](#), filed on February 17, 2022, relating to the registration of 2,957,053 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-266469](#), filed on August 2, 2022 relating to the registration of 1,500,000 Shares under the Amended and Restated 2020 Inducement Plan;
- Registration Statement No. [333-269844](#), filed on February 17, 2023, relating to the registration of 2,997,945 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;
- Registration Statement No. [333-277149](#), filed on February 16, 2024 relating to the registration of 3,057,361 Shares under the 2015 Stock Option and Incentive Plan and the 2015 Employee Stock Purchase Plan;

- Registration Statement No. [333-280405](#), filed on June 21, 2024 relating to the registration of 9,200,000 Shares under the 2024 Stock Incentive Plan; and
- Registration Statement No. [333-284918](#), filed on February 13, 2025 relating to the registration of 637,122 Shares under the 2015 Employee Stock Purchase Plan.

On July 17, 2025, pursuant to the terms of the Agreement and Plan of Merger, dated as of June 2, 2025, by and among the Registrant, SANOFI, a French *société anonyme* (“Parent”), Aventis Inc., a Pennsylvania corporation and wholly owned Subsidiary of Parent (“Aventis”), and Rothko Merger Sub, Inc., a Delaware corporation and wholly owned Subsidiary of Aventis (“Purchaser”), Purchaser merged with and into the Registrant with the Registrant surviving the merger as a wholly owned subsidiary of Aventis (the “Merger”).

As a result of the Merger, the Registrant has terminated all offerings and sales pursuant to the Registration Statements. In accordance with an undertaking made by the Registrant in the Registration Statements to remove from registration, by means of a post-effective amendment, any of the securities registered under the Registration Statements that remain unsold at the termination of the offerings, the Registrant hereby amends the Registration Statements to remove from registration the Shares registered but remaining unsold under the Registration Statements.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, 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 these Post-Effective Amendments to the Registration Statements described above to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cambridge, in the Commonwealth of Massachusetts, on July 18, 2025.

BLUEPRINT MEDECINES CORPORATION

By: /s/ Michael Tolpa

Name: Michael Tolpa

Title: Treasurer

Pursuant to Rule 478 of the Securities Act of 1933, as amended, no other person is required to sign these Post-Effective Amendments to the Registration Statements.