

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(Amendment No. 1)\*

|                                                         |
|---------------------------------------------------------|
| Blueprint Medicines Corp                                |
| (Name of Issuer)                                        |
| Common Stock, par value \$0.001 per share               |
| (Title of Class of Securities)                          |
| 09627Y109                                               |
| (CUSIP Number)                                          |
| 06/30/2025                                              |
| (Date of Event Which Requires Filing of this Statement) |

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- ☒ Rule 13d-1(b)
- ☐ Rule 13d-1(c)
- ☐ Rule 13d-1(d)

SCHEDULE 13G

CUSIP No. 09627Y109

|   |                                                                                            |
|---|--------------------------------------------------------------------------------------------|
| 1 | Names of Reporting Persons                                                                 |
|   | Avoro Capital Advisors LLC                                                                 |
|   | Check the appropriate box if a member of a Group (see instructions)                        |
| 2 | <div><input type="checkbox"/> (a)</div> <div><input checked="" type="checkbox"/> (b)</div> |
| 3 | Sec Use Only                                                                               |
|   | Citizenship or Place of Organization                                                       |
| 4 | DELAWARE                                                                                   |

|                                                                    |                                                                                         |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                                                                    | Sole Voting Power                                                                       |
| 5                                                                  |                                                                                         |
|                                                                    | 375,000.00                                                                              |
| Number of Shares Beneficially Owned by Each Reporting Person With: | Shared Voting Power                                                                     |
| 6                                                                  |                                                                                         |
|                                                                    | 0.00                                                                                    |
|                                                                    | Sole Dispositive Power                                                                  |
| 7                                                                  |                                                                                         |
|                                                                    | 375,000.00                                                                              |
|                                                                    | Shared Dispositive Power                                                                |
| 8                                                                  |                                                                                         |
|                                                                    | 0.00                                                                                    |
| 9                                                                  | Aggregate Amount Beneficially Owned by Each Reporting Person                            |
|                                                                    | 375,000.00                                                                              |
| 10                                                                 | Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) |
|                                                                    | <input type="checkbox"/>                                                                |
| 11                                                                 | Percent of class represented by amount in row (9)                                       |
|                                                                    | 0.6 %                                                                                   |
| 12                                                                 | Type of Reporting Person (See Instructions)                                             |
|                                                                    | IA, OO                                                                                  |

## SCHEDULE 13G

**CUSIP No.** 09627Y109

|                                                                    |                                                                                         |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1                                                                  | Names of Reporting Persons                                                              |
|                                                                    | Behzad Aghazadeh                                                                        |
|                                                                    | Check the appropriate box if a member of a Group (see instructions)                     |
| 2                                                                  | <input type="checkbox"/> (a)                                                            |
|                                                                    | <input checked="" type="checkbox"/> (b)                                                 |
| 3                                                                  | Sec Use Only                                                                            |
| 4                                                                  | Citizenship or Place of Organization                                                    |
|                                                                    | UNITED STATES                                                                           |
|                                                                    | Sole Voting Power                                                                       |
| 5                                                                  |                                                                                         |
|                                                                    | 375,000.00                                                                              |
| Number of Shares Beneficially Owned by Each Reporting Person With: | Shared Voting Power                                                                     |
| 6                                                                  |                                                                                         |
|                                                                    | 0.00                                                                                    |
|                                                                    | Sole Dispositive Power                                                                  |
| 7                                                                  |                                                                                         |
|                                                                    | 375,000.00                                                                              |
|                                                                    | Shared Dispositive Power                                                                |
| 8                                                                  |                                                                                         |
|                                                                    | 0.00                                                                                    |
| 9                                                                  | Aggregate Amount Beneficially Owned by Each Reporting Person                            |
|                                                                    | 375,000.00                                                                              |
| 10                                                                 | Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) |
|                                                                    | <input type="checkbox"/>                                                                |

|    |                                                   |
|----|---------------------------------------------------|
|    | Percent of class represented by amount in row (9) |
| 11 | 0.6 %                                             |
|    | Type of Reporting Person (See Instructions)       |
| 12 | HC, IN                                            |

## SCHEDULE 13G

### Item 1.

Name of issuer:

(a)

Blueprint Medicines Corp

Address of issuer's principal executive offices:

(b)

45 Sidney Street, Cambridge, MA 02139

### Item 2.

Name of person filing:

(a)

This statement is filed by: (i) Avoro Capital Advisors LLC, a Delaware limited liability company ("Avoro"), which provides investment advisory and management services and has acquired the shares of common stock, par value \$0.001 per share ("Common Stock") of Blueprint Medicines Corporation, a Delaware corporation (the "Issuer"), solely for investment purposes on behalf of Avoro Life Sciences Fund LLC, a Delaware limited liability company, and (ii) Behzad Aghazadeh ("Dr. Aghazadeh," and together with Avoro, the "Reporting Persons"), who serves as the portfolio manager and controlling person of Avoro. The filing of this statement should not be construed as an admission that any Reporting Person is, for purposes of Section 13 of the Act, the beneficial owner of the securities reported herein.

Address or principal business office or, if none, residence:

(b)

The address of the business office of each of the Reporting Persons is 110 Greene Street, Suite 800, New York, NY 10012.

Citizenship:

(c)

Avoro is a Delaware limited liability company. Dr. Aghazadeh is a United States citizen.

Title of class of securities:

(d)

Common Stock, par value \$0.001 per share

CUSIP No.:

(e)

09627Y109

### Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

(a)

☐ Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);

(b)

☐ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);

(c)

☐ Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);

(d)

☐ Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);

(e)

☒ An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);

(f)

☐ An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);

(g)

☒ A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);

(h)

☐ A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);

(i)

☐ A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);

(j)

☐ A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

(k)

☐ Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K).

### Item 4. Ownership

(a)

Amount beneficially owned:

The information required by Item 4(a) is set forth in Row 9 of the cover page for each of the Reporting Persons and is incorporated herein by reference. The percentage set forth in this Schedule 13G is calculated based upon 64,733,629 shares of Common Stock outstanding as of June 12, 2025, as reported in the Issuer's Solicitation Statement on Schedule 14D-9, filed with the Securities and Exchange Commission on June 17, 2025.

Percent of class:

(b)

0.6% %

(c)

Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:

The information required by Item 4(c)(i) is set forth in Row 5 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

(ii) Shared power to vote or to direct the vote:

The information required by Item 4(c)(ii) is set forth in Row 6 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

(iii) Sole power to dispose or to direct the disposition of:

The information required by Item 4(c)(iii) is set forth in Row 7 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

(iv) Shared power to dispose or to direct the disposition of:

The information required by Item 4(c)(iv) is set forth in Row 8 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

Item 5. Ownership of 5 Percent or Less of a Class.

☒ Ownership of 5 percent or less of a class

Item 6. Ownership of more than 5 Percent on Behalf of Another Person.

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than 5 percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

See Item 2(a).

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not Applicable

Item 9. Notice of Dissolution of Group.

Not Applicable

Item 10. Certifications:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under ?? 240.14a-11.

## SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Avoro Capital Advisors LLC

Signature: /s/ Scott Epstein

Name/Title: Scott Epstein, Chief Financial Officer & Chief Compliance Officer

Date: 08/14/2025

Behzad Aghazadeh

Signature: /s/ Behzad Aghazadeh

Name/Title: Behzad Aghazadeh, Individually

Date: 08/14/2025