

Form 5500

Department of the Treasury Internal Revenue Service

Department of Labor Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Annual Return/Report of Employee Benefit Plan

This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code).

Complete all entries in accordance with the instructions to the Form 5500.

OMB Nos. 1210-0110 1210-0089

2024

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: a multiemployer plan, a multiple-employer plan, a single-employer plan, a DFE, etc.
B This return/report is: the first return/report, the final return/report, an amended return/report, a short plan year return/report, etc.
C If the plan is a collectively-bargained plan, check here.
D Check box if filing under: Form 5558, automatic extension, special extension, the DFVC program, etc.
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.

Part II Basic Plan Information—enter all requested information

1a Name of plan: BLUEPRINT MEDICINES CORPORATION CHANGE IN CONTROL SEVERANCE PLAN
1b Three-digit plan number (PN): 502
1c Effective date of plan: 06/19/2019
2a Plan sponsor's name, mailing address, city, etc.: BLUEPRINT MEDICINES CORPORATION, 45 SIDNEY STREET, CAMBRIDGE, MA 02139
2b Employer Identification Number (EIN): 26-3632015
2c Plan Sponsor's telephone number: 617-374-7580
2d Business code (see instructions): 541990

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Includes rows for plan administrator, employer/plan sponsor, and DFE.

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2024) v. 240311

| | | |
|---|--|-----|
| 3a Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor | 3b Administrator's EIN | |
| | 3c Administrator's telephone number | |
| 4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name | 4b EIN | |
| | 4d PN | |
| 5 Total number of participants at the beginning of the plan year | 5 | 554 |
| 6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested..... | 6a(1) | 554 |
| | 6a(2) | 531 |
| | 6b | 0 |
| | 6c | 0 |
| | 6d | 531 |
| | 6e | |
| | 6f | |
| | 6g(1) | |
| 6g(2) | | |
| 6h | | |
| 7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item) | 7 | |

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:
41

| | |
|---|---|
| 9a Plan funding arrangement (check all that apply) | 9b Plan benefit arrangement (check all that apply) |
| (1) <input type="checkbox"/> Insurance | (1) <input type="checkbox"/> Insurance |
| (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts | (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts |
| (3) <input type="checkbox"/> Trust | (3) <input type="checkbox"/> Trust |
| (4) <input checked="" type="checkbox"/> General assets of the sponsor | (4) <input checked="" type="checkbox"/> General assets of the sponsor |

10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

| | |
|--|--|
| a Pension Schedules | b General Schedules |
| (1) <input type="checkbox"/> R (Retirement Plan Information) | (1) <input type="checkbox"/> H (Financial Information) |
| (2) <input type="checkbox"/> MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary | (2) <input type="checkbox"/> I (Financial Information – Small Plan) |
| (3) <input type="checkbox"/> SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary | (3) <input type="checkbox"/> A (Insurance Information) – Number Attached <u>0</u> |
| (4) <input type="checkbox"/> DCG (Individual Plan Information) – Number Attached _____ | (4) <input type="checkbox"/> C (Service Provider Information) |
| (5) <input type="checkbox"/> MEP (Multiple-Employer Retirement Plan Information) | (5) <input type="checkbox"/> D (DFE/Participating Plan Information) |
| | (6) <input type="checkbox"/> G (Financial Transaction Schedules) |

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) Yes No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) Yes No

11c Enter the Receipt Confirmation Code for the 2024 Form M-1 annual report. If the plan was not required to file the 2024 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

Authorization to Electronically Sign and File Health and Welfare Form 5500

I hereby authorize Marsh McLennan Agency, LLC Company ("MMA") to electronically sign and submit to the Department of Labor (DOL) the Form 5500 annual report for the plan year(s) listed below.

I understand that in granting this authority that:

- as the Plan Administrator/Plan Sponsor, I have the final responsibility for the Form 550 and
- in order for MMA to electronically submit the filing, I must **sign and date Page 1** of the Form 5500 and provide to MMA the signed 5500 (first 3 pages only). This signed copy is required per the Department of Labor (DOL) rules and will be attached to the Form 5500 submission when transmitted;
- an image of my **inked signature**, as it appears on Page 1 of the scanned Form 5500, will be included with the completed Form 5500 and posted by the DOL on the Internet for public disclosure;
- I understand that I do have the option to obtain signing credentials and to directly submit the Form 5500 annual report to the DOL electronically.
- I must keep a signed paper copy of the completed Form 5500 in my files.
- MMA will retain a copy of this written authorization in its records;
- MMA will notify the individual signing below as plan administrator about any inquires and information it receives from the EFAST2, DOL, or IRS regarding this annual return/report; and
- MMA shall not be deemed an administrator, plan sponsor or other fiduciary with respect to any plan solely on account of the services performed under this authorization.

By the signature below, I am acknowledging that I understand the above and that I may revoke or change authorization at any time by written notification to MMA.

Company Name: BLUEPRINT MEDICINES

Plan Year (select one): 20 24 Amended Returns

Delinquent Filing (DFVC) Returns

Plan Administrator Name (please print): JUSTIN FOSSBEIDER

Plan Administrator Signature: [Handwritten Signature]

Date: 7/31/2025

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| Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation | Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500. | OMB Nos. 1210-0110 1210-0089 <div style="font-size: 24pt; font-weight: bold; text-align: center;">2024</div> This Form is Open to Public Inspection |
|---|--|---|

| | |
|---------------|---|
| Part I | Annual Report Identification Information |
|---------------|---|

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A This return/report is for: a multiemployer plan a multiple-employer plan (Filers checking this box must provide participating employer information in accordance with the form instructions.)
 a single-employer plan a DFE (specify) _____

B This return/report is: the first return/report the final return/report
 an amended return/report a short plan year return/report (less than 12 months)

C If the plan is a collectively-bargained plan, check here.

D Check box if filing under: Form 5558 automatic extension the DFVC program
 special extension (enter description)

E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.

| | |
|----------------|---|
| Part II | Basic Plan Information—enter all requested information |
|----------------|---|

| | | | | | | | |
|---|---|--|-----------|---|--------------|--|--------|
| 1a Name of plan <u>BLUEPRINT MEDICINES CORPORATION CHANGE IN CONTROL SEVERANCE PLAN</u> | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;">1b Three-digit plan number (PN) ▶</td> <td style="width:20%; text-align: center;">502</td> </tr> <tr> <td>1c Effective date of plan</td> <td style="text-align: center;">06/19/2019</td> </tr> </table> | 1b Three-digit plan number (PN) ▶ | 502 | 1c Effective date of plan | 06/19/2019 | | |
| 1b Three-digit plan number (PN) ▶ | 502 | | | | | | |
| 1c Effective date of plan | 06/19/2019 | | | | | | |
| 2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>BLUEPRINT MEDICINES CORPORATION</u> <u>45 SIDNEY STREET, CAMBRIDGE, MA, 02139, USA</u> | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>2b Employer Identification Number (EIN)</td> <td style="text-align: center;">263632015</td> </tr> <tr> <td>2c Plan Sponsor's telephone number</td> <td style="text-align: center;">617-374-7580</td> </tr> <tr> <td>2d Business code (see instructions)</td> <td style="text-align: center;">541990</td> </tr> </table> | 2b Employer Identification Number (EIN) | 263632015 | 2c Plan Sponsor's telephone number | 617-374-7580 | 2d Business code (see instructions) | 541990 |
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Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

| | | | |
|------------------|------------------------------------|-----------|--|
| SIGN HERE | | 7/31/2025 | JUSTIN FOSS BENDER |
| | Signature of plan administrator | Date | Enter name of individual signing as plan administrator |
| SIGN HERE | Signature of employer/plan sponsor | Date | Enter name of individual signing as employer or plan sponsor |
| SIGN HERE | Signature of DFE | Date | Enter name of individual signing as DFE |

| | | |
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| 3a Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor | 3b Administrator's EIN | |
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| | 6a(2) | 531 |
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a Pension Schedules

- (1) **R** (Retirement Plan Information)
- (2) **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3) **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary
- (4) **DCG** (Individual Plan Information) – Number Attached _____
- (5) **MEP** (Multiple-Employer Retirement Plan Information)

b General Schedules

- (1) **H** (Financial Information)
- (2) **I** (Financial Information – Small Plan)
- (3) **A** (Insurance Information) – Number Attached 0
- (4) **C** (Service Provider Information)
- (5) **D** (DFE/Participating Plan Information)
- (6) **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) Yes No

If "Yes" is checked, complete lines 11b and 11c.

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