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

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 2)¹

| (Name of Issuer) |
|---|
| Common Stock, par value \$0.001 per share |
| (Title of Class of Securities) |
| 45175G108 |
| (CUSIP Number) |
| December 31, 2022 |
| (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) |
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| |
| The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in prior cover page. |
| The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, <i>see</i> the <i>Notes</i>). |

| 1 | NAME OF REPORT | TING PERSON | |
|---------------------|-----------------|---|-------|
| | Riotechnology | y Value Fund, L.P. | |
| 2 | | ROPRIATE BOX IF A MEMBER OF A GROUP | (a) 🗵 |
| | | | (b) □ |
| 3 | SEC USE ONLY | | |
| 3 | SEC USE ONLY | | |
| | | | |
| 4 | CITIZENSHIP OR | PLACE OF ORGANIZATION | |
| | Delaware | | |
| NUMBER OF SHARES | 5 | SOLE VOTING POWER | |
| BENEFICIALLY | | 0 | |
| OWNED BY | 6 | SHARED VOTING POWER | |
| EACH REPORTING | | 1,358,593 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER | |
| | | 0 | |
| | 8 | SHARED DISPOSITIVE POWER | |
| | | 1 250 502 | |
| 9 | AGGREGATE AM | 1,358,593 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
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| 10 | 1,358,593 | HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
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| 11 | PERCENT OF CLA | ASS REPRESENTED BY AMOUNT IN ROW (9) | |
| 12 | 3.8% | DIG DEDGOV | |
| 12 | TYPE OF REPORT | ING PERSON | |
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| 1 | NAME OF REPOR | TING PERSON | |
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| | BVF I GP LI | | |
| 2 | CHECK THE APP | ROPRIATE BOX IF A MEMBER OF A GROUP | (a) 🗵 |
| | | | (b) □ |
| 3 | SEC USE ONLY | | |
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| NUMBER OF | Delaware 5 | SOLE VOTING POWER | |
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| BENEFICIALLY | | 0 | |
| OWNED BY | 6 | SHARED VOTING POWER | |
| EACH REPORTING | | 1,358,593 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER | |
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| | 8 | SHARED DISPOSITIVE POWER | |
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| 9 | AGGREGATE AM | OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
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| 10 | 1,358,593 | HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | П |
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| 11 | PERCENT OF CLA | ASS REPRESENTED BY AMOUNT IN ROW (9) | |
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| 12 | TYPE OF REPORT | TING PERSON | |
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| 1 | NAME OF REPOR | TING PERSON | |
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| | Biotechnolog | y Value Fund II, L.P. | |
| 2 | | ROPRIATE BOX IF A MEMBER OF A GROUP | (a) ⊠ (b) □ |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR | PLACE OF ORGANIZATION | |
| | Delaware | | |
| NUMBER OF SHARES BENEFICIALLY | 5 | SOLE VOTING POWER 0 | |
| OWNED BY EACH REPORTING | 6 | SHARED VOTING POWER 985,501 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER 0 | |
| | 8 | SHARED DISPOSITIVE POWER 985,501 | |
| 9 | AGGREGATE AM 985,501 | OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
| 10 | | HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 2.7% | | |
| 12 | TYPE OF REPORT | TING PERSON | |

| 1 | NAME OF REPO | RTING PERSON | |
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| | BVF II GP I | | |
| 2 | CHECK THE API | PROPRIATE BOX IF A MEMBER OF A GROUP | (a) 🗵 |
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| 3 | SEC USE ONLY | | |
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| MIIMDED OF | Delaware | SOLE VOTING POWER | |
| NUMBER OF SHARES | 5 | SOLE VOTING POWER | |
| BENEFICIALLY | | 0 | |
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| | | 985,501 | |
| 9 | AGGREGATE AN | MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
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| 10 | CHECK BOX IF | THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
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| 1 | NAME OF REPOR | RTING PERSON | |
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| | | y Value Trading Fund OS LP | |
| 2 | CHECK THE APP | ROPRIATE BOX IF A MEMBER OF A GROUP | (a) ⊠ |
| | | | (b) □ |
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| 3 | SEC USE ONLY | | |
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| 4 | CITIZENSHIP OR | PLACE OF ORGANIZATION | - |
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| | Cayman Islan | nds | |
| NUMBER OF | 5 | SOLE VOTING POWER | |
| SHARES | | | |
| BENEFICIALLY | | 0 | |
| OWNED BY | 6 | SHARED VOTING POWER | |
| EACH | | | |
| REPORTING | | 130,823 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER | |
| | | | |
| | | 0 | |
| | 8 | SHARED DISPOSITIVE POWER | |
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| | | 130,823 | |
| 9 | AGGREGATE AM | OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
| | | | |
| | 130,823 | | |
| 10 | | HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
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| 11 | PERCENT OF CL. | ASS REPRESENTED BY AMOUNT IN ROW (9) | |
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| 12 | TYPE OF REPORT | TING PERSON | |
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| 1 | NAME OF REPOR | RTING PERSON | |
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| | BVF Partner | | |
| 2 | CHECK THE API | PROPRIATE BOX IF A MEMBER OF A GROUP | (a) 🗵 |
| | | | (b) □ |
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| 3 | SEC USE ONLY | | |
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| 4 | CITIZENSHIP OF | PLACE OF ORGANIZATION | |
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| | Cayman Isla | nds | |
| NUMBER OF | 5 | SOLE VOTING POWER | |
| SHARES | | | |
| BENEFICIALLY | | 0 | |
| OWNED BY | 6 | SHARED VOTING POWER | |
| EACH | | | |
| REPORTING | | 130,823 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER | |
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| | | 0 | |
| | 8 | SHARED DISPOSITIVE POWER | |
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| | | 130,823 | |
| 9 | AGGREGATE AN | OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
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| 10 | | THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
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| 11 | PERCENT OF CL | ASS REPRESENTED BY AMOUNT IN ROW (9) | |
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| | Less than 1% | $\stackrel{\prime}{0}$ | |
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| 1 | NAME OF REPOR | TING PERSON | |
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| | BVF GP Holo | lings LLC | |
| 2 | | ROPRIATE BOX IF A MEMBER OF A GROUP | (a) ⊠ (b) □ |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR | PLACE OF ORGANIZATION | |
| | Delaware | | |
| NUMBER OF SHARES BENEFICIALLY | 5 | SOLE VOTING POWER 0 | |
| OWNED BY EACH REPORTING | 6 | SHARED VOTING POWER 2,344,094 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER 0 | |
| | 8 | SHARED DISPOSITIVE POWER 2,344,094 | |
| 9 | AGGREGATE AM | OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
| | 2,344,094 | | |
| 10 | | HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | | |
| 12 | 6.5% TYPE OF REPORT | TNIC DEDSON | |
| 12 | | ING FERSON | |
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| | NAME OF BEROR | TRIC PERCON | |
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| 1 | NAME OF REPOR | TING PERSON | |
| | DIVE D | T. D. | |
| | BVF Partners | | |
| 2 | CHECK THE APPI | ROPRIATE BOX IF A MEMBER OF A GROUP | (a) ⊠ |
| | | | (b) □ |
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| 3 | SEC USE ONLY | | |
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| 4 | CITIZENCHID OD | PLACE OF ORGANIZATION | - |
| 4 | CITIZENSHIP OR | PLACE OF ORGANIZATION | |
| | Delaware | | |
| NUMBER OF | 5 | SOLE VOTING POWER | |
| SHARES | | SOLE VOTINGTOWER | |
| BENEFICIALLY | | 0 | |
| OWNED BY | 6 | SHARED VOTING POWER | |
| EACH | | | |
| REPORTING | | 2,503,071 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER | |
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| | 8 | SHARED DISPOSITIVE POWER | |
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| | | 2,503,071 | |
| 9 | AGGREGATE AM | OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
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| 10 | 2,503,071 | HE ACCRECATE AMOUNT BUROW (A) EVOLUDES CERTARIONARIO | |
| 10 | CHECK BOX IF T | HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
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| 11 | DEDCENT OF CLA | ASS REPRESENTED BY AMOUNT IN ROW (9) | |
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| 12 | TYPE OF REPORT | TNG PERSON | |
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| 1 | NAME OF REPOR | RTING PERSON | |
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| | BVF Inc. | | |
| 2 | | ROPRIATE BOX IF A MEMBER OF A GROUP | (a) ⊠ (b) □ |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR | PLACE OF ORGANIZATION | |
| | Delaware | | |
| NUMBER OF SHARES BENEFICIALLY | 5 | SOLE VOTING POWER 0 | |
| OWNED BY EACH REPORTING | 6 | SHARED VOTING POWER 2,503,071 | |
| PERSON WITH | 7 | SOLE DISPOSITIVE POWER 0 | |
| | 8 | SHARED DISPOSITIVE POWER | _ |
| 9 | AGGREGATE AM | 2,503,071 IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
| | 2,503,071 | | |
| 10 | CHECK BOX IF T | HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | | |
| 12 | 6.9% TYPE OF REPOR | TING PERSON | |
| 12 | CO | IIIO I LAGON | |

| Mark N. Lampert 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 8 SHARED DISPOSITIVE POWER 2,503,071 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | 1 | NAME OF REPORT | ING PERSON | |
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| 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠ (b) □ 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 8 SHARED DISPOSITIVE POWER 2,503,071 | 1 | White of Reform | INOTERSON | |
| 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠ (b) □ 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 8 SHARED DISPOSITIVE POWER 2,503,071 | | Mark N. Lamp | ert | |
| 3 SEC USE ONLY | 2 | | | (a) 🗵 |
| 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING POWER EACH REPORTING POWER 7 SOLE DISPOSITIVE POWER 8 SHARED DISPOSITIVE POWER 2,503,071 8 SHARED DISPOSITIVE POWER 2,503,071 | | | | (b) □ |
| 4 CITIZENSHIP OR PLACE OF ORGANIZATION United States NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 8 SHARED DISPOSITIVE POWER 2,503,071 8 SHARED DISPOSITIVE POWER 2,503,071 | | | | |
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| | | 8 | SHARED DISTOSITIVE TOWER | |
| 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | 2,503,071 | |
| | 9 | AGGREGATE AMO | UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | |
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| 2,503,071 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES | 10 | | E ACCDECATE AMOUNT IN DOW (0) EVOLUDES CEDTAIN SHADES | |
| CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (5) EXCLUDES CERTAIN SHARES | 10 | CHECK BOX II' III | E AGGREGATE AMOUNT IN ROW (3) EXCLUDES CERTAIN SHARES | |
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| 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | 11 | PERCENT OF CLAS | SS REPRESENTED BY AMOUNT IN ROW (9) | |
| | | 6.007 | | |
| 6.9% 12 TYPE OF REPORTING PERSON | 12 | | MC DED COM | |
| 12 TIPE OF REPORTING PERSON | 12 | TIPE OF KEPOKII | ING PERSON | |
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Item 1(a). Name of Issuer:

Ikena Oncology, Inc., a Delaware corporation (the "Issuer").

Item 1(b). Address of Issuer's Principal Executive Offices:

645 Summer Street, Suite 101 Boston, Massachusetts 02210

Item 2(a). Name of Person Filing

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF I GP LLC ("BVF GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF II GP LLC ("BVF2 GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Biotechnology Value Trading Fund OS LP ("Trading Fund OS")
PO Box 309 Ugland House
Grand Cayman, KY1-1104
Cayman Islands
Citizenship: Cayman Islands

BVF Partners OS Ltd. ("Partners OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands

BVF GP Holdings LLC ("BVF GPH") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Partners L.P. ("Partners") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Inc. 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.001 per share (the "Shares").

Item 2(e). CUSIP Number:

45175G108

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

| | /x/ | Not applicable. |
|-----|-----|--|
| (a) | // | Broker or dealer registered under Section 15 of the Exchange Act. |
| (b) | // | Bank as defined in Section 3(a)(6) of the Exchange Act. |
| (c) | // | Insurance company as defined in Section 3(a)(19) of the Exchange Act. |
| (d) | // | Investment company registered under Section 8 of the Investment Company Act. |
| (e) | // | An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E). |
| (f) | // | An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F). |
| (g) | // | A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). |
| (h) | // | A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. |
| (i) | // | A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act. |
| (j) | // | A non-U.S. institution, in accordance with Rule 13d-1(b)(1)(ii)(J). |
| (k) | // | Group, in accordance with Rule 13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution: |

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on December 31, 2022, (i) BVF beneficially owned 1,358,593 Shares, (ii) BVF2 beneficially owned 985,501 Shares and (iii) Trading Fund OS beneficially owned 130,823 Shares.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 1,358,593 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 985,501 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 130,823 Shares beneficially owned by Trading Fund OS.

BVF GPH, as the sole member of each of BVF GP and BVF2 GP, may be deemed to beneficially own the 2,344,094 Shares beneficially owned in the aggregate by BVF and BVF2.

Partners, as the investment manager of BVF, BVF2 and Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 2,503,071 Shares beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and held in a certain Partners managed account (the "Partners Managed Account"), including 28,154 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 2,503,071 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 2,503,071 Shares beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any Shares owned by another Reporting Person. BVF GP disclaims beneficial ownership of the Shares beneficially owned by BVF. BVF2 GP disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. BVF GPH disclaims beneficial ownership of the Shares beneficially owned by BVF and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF, BVF2 and Trading Fund OS and held in the Partners Managed Account, and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 36,257,493 Shares outstanding as of October 31, 2022, as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2022.

As of the close of business on December 31, 2022, (i) BVF beneficially owned approximately 3.8% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 2.7% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) BVF GP may be deemed to beneficially own approximately 3.8% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.7% of the outstanding Shares, (vi) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, (vii) BVF GPH may be deemed to beneficially own approximately 6.5% of the outstanding Shares and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 6.9% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Account).

- (c) Number of shares as to which such person has:
- (i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.

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

See Cover Pages Items 5-9.

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

See Cover Pages Items 5-9.

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

See Cover Pages Items 5-9.

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

Not Applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF and BVF2. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and held in the Partners Managed Account.

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

Not Applicable.

Item 8. Identification and Classification of Members of the Group.

See Exhibit 99.1 to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on April 5, 2021.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above 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.

SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2023 BIOTECHNOLOGY VALUE FUND, L.P. BIOTECHNOLOGY VALUE TRADING FUND OS LP BVF I GP LLC, its general partner By: BVF Partners L.P., its investment manager BVF Inc., its general partner By: /s/ Mark N. Lampert Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF I GP LLC BVF GP HOLDINGS LLC /s/ Mark N. Lampert By: Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert Chief Executive Officer BIOTECHNOLOGY VALUE FUND II, L.P. BVF PARTNERS L.P. BVF II GP LLC, its general partner By: BVF Inc., its general partner By: /s/ Mark N. Lampert Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF II GP LLC BVF INC. By: /s/ Mark N. Lampert By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF PARTNERS OS LTD. /s/ Mark N. Lampert

BVF Partners L.P., its sole member BVF Inc., its general partner

By: /s/ Mark N. Lampert Mark N. Lampert

President

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MARK N. LAMPERT