UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): June 4, 2022

Biomea Fusion, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-40335 (Commission File Number) 82-2520134 (IRS Employer Identification No.)

650 Main Street Redwood City, CA (Address of Principal Executive Offices)

94063 (Zip Code)

Registrant's Telephone Number, Including Area Code: (650) 980-9099

Not Applicable

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

	Trading	Name of each exchange
Title of each class	Symbol(s)	on which registered
Common Stock, \$0.0001 par value	BMEA	The Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

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 13(a) of the Exchange Act. \Box

Item 8.01. Other Events.

On June 4, 2022, Biomea Fusion, Inc. (the "Company") presented preclinical data on its product candidate, BMF-219, in chronic lymphocytic leukemia tumor models at the 2022 American Society of Clinical Oncology (ASCO) Annual Meeting.

On June 5, 2022, the Company presented preclinical data on BMF-219 in two diabetic animal models at the American Diabetes Association (ADA) Scientific Sessions.

Copies of the Company's poster presentations are attached to this Current Report on Form 8-K as Exhibits 99.1 through 99.3 and incorporated herein by reference.

Forward-Looking Statements

Statements made or incorporated by reference in this Current Report on Form 8-K may include statements which are not historical facts and are considered forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). These statements may be identified by words such as "aims," "anticipates," "believes," "could," "estimates," "expects," "forecasts," "goal," "intends," "may," "plans," "possible," "potential," "seeks," "will," and variations of these words or similar expressions that are intended to identify forward-looking statements. Any such statements in this press release that are not statements of historical fact, including statements regarding the clinical and therapeutic potential of the Company's product candidates and development programs, including BMF-219, the potential of BMF-219 as a treatment for various types of cancer and diabetes, the Company's research, development and regulatory plans, and the timing of such events, may be deemed to be forward-looking statements. The Company intends these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Exchange Act and is making this statement for purposes of complying with those safe harbor provisions.

Any forward-looking statements made or incorporated by reference in this Current Report on Form 8-K are based on the Company's current expectations, estimates and projections only as of the date of this Current Report on Form 8-K are subject to a number of risks and uncertainties that could cause actual results to differ materially and adversely from those set forth in or implied by such forward-looking statements, including the risk that the Company may encounter delays in patient enrollment and in the initiation, conduct and completion of its planned clinical trials and other research and development activities. These risks concerning the Company's business and operations are described in additional detail in its periodic filings with the U.S. Securities and Exchange Commission (the "SEC"), including its most recent periodic report filed with the SEC and subsequent filings thereafter. The Company explicitly disclaims any obligation to update any forward-looking statements except to the extent required by law.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit <u>Number</u>	Description
99.1	Poster presentation titled, "Preclinical Activity of Irreversible menin inhibitor, BMF-219, in Chronic Lymphocytic Leukemia."
99.2	Poster presentation titled, "Oral Long-Acting Menin Inhibitor, BMF-219, Normalizes Type 2 Diabetes Mellitus in Two Rat Models."
99.3	Poster presentation titled, "Oral Menin Inhibitor, BMF-219, displays a significant and durable reduction in HbA1c in a Type 2 Diabetes Mellitus Rat Model."

104 Cover Page Interactive Data File (embedded within the Inline XBRL document)

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

BIOMEA FUSION, INC.

/s/ Thomas Butler By: **Thomas Butler Principal Executive Officer**

Date: June 6, 2022



Methods

reprehensive panel of CLL samples isolated from patients with Rai Stages 1 to 3 ase, including relapsed or infractory disease, were cultured or who in the ence of BMF-219 or a clinical revensible menin inhibitor to assess the eukemic activity of the compounds.



Table 1. Clinical Profiles of CLL Patient Samples and Res e to BMF-219 884-305 ATM Normal endamosticar (responded, the progressed) (ride (responded, then progre Stage 2 (Relaysed) 894-302 NOTOKS Rormal 0.332 86.7 Stage 3 (Relayced) 894-308 1718 3/4 Inge 1 0.385 (c71), 5, add5 (c14), 13, 43, 51 (c14), 13, 43, 51 (c14), 13, 14 (c14), 13, 14 (c14), 884-304 None or Talk Bryank (responded) frage 1 0.304 0.384 894-305 894-306 1958 100 Diage 2 Stage 3 ded, no progr Atusinal; Methylpredrissione (responded), Brutinib 14,14 -47.10.+12.034.100a/0.a15.0. 0.145 AL AMPLA 814.308 8.310 -None or No. DiaNari N. white N. Stage 2 0.315 0.257 0.259 0.354 Frage 3 N/A pr 3 (Belages N/A BM 309 None or No 1.000 884-310 884-311 884-312 None or Tulk NoTe of Tulk Normal N/A Brutinb (resp A/A A/A onded

u.sa p.nt, similar to BWF-219 potency in AML and DLBCL as vivo models. Specimens lootated from patients with chical profiles containing high-risk pencies backpounds associated with interviro volcomes to standard therapy, such as mutations in TPS1 and NOTCH3, and chromosomal abensions such as de(13a), troomy 12 and complex karyotype, exhibited high sensitivity to BMF-219 treatment. BMF-219 was also highly effective against patient samples with clinical profiles of resistance to bendamustine or ibrutinib therapy.

- A clinical reversible menin inhibitor demonstrated no significant activity across all patient samples tested, with incalculable IC₅₀ values and <15% reduction in cell viability at 1 pM exposure.
- Collectively, ou data demonstrate the potent preclinical activity of BMF-219 against CL patient specimens harboring various mutational and cytogenetic backgrounds, including categories of high unner treed, highlighter the unique potential of covalent menin inhibition as a novel therapeutic option for patients

References

 Li, Hu, Gan, T., Masamon, W., et al. Datinet pathways destinging B raths. Binol (2010) (2011):2011-2010. Benarauth, P., Li, G., Lian, B. et al. Strand: Invancion Reference/O(DC) Cells. Binol 2023; 2018 [Supplement 1] 810; G., Nann, M., Dinn, L. and Al Manin anharous of M Commune B, 10207 (2017). Inhibitor, BMP-218, Shows Patent Lingle Agent Activ nar programion. Ref

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Exhibit 99.3

