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): March 29, 2023

SYNLOGIC, INC.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-37566 (Commission File Number) 26-1824804 (IRS Employer Identification No.)

301 Binney St. Suite 402 Cambridge, Massachusetts (Address of Principal Executive Offices)

02142 (Zip Code)

Registrant's Telephone Number, Including Area Code: (617) 401-9975

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 (see General Instruction A.2. below):

□ 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					
Title of each class	Symbol(s)	Name of each exchange on which registered				
Common Stock, par value \$0.001 per share	SYBX	The NASDAQ Global Market				

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Emerging growth company \Box

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 2.02 Results of Operations and Financial Condition.

On March 29, 2023, Synlogic, Inc. (the "Company") announced its financial results for the quarter and full year ended December 31, 2022. The full text of the press release issued in connection with the announcement is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

The information in this Current Report on Form 8-K (including Exhibit 99.1) shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
99.1	Press Release dated March 29, 2023.
104	Cover Page Interactive Data File (embedded within the Inline XBRL Document)

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.

Date: March 29, 2023

Synlogic, Inc.

By: /s/ Michael Jensen

Name:Michael JensenTitle:Chief Financial Officer

synlogic

Synlogic Reports Fourth Quarter and Full Year 2022 Financial Results and Corporate Updates

- Phenylketonuria (PKU) program on track for Phase 3 trial initiation in first half of 2023 -

- Rare Pediatric Disease Designation granted for SYNB1934 for PKU and SYNB1353 for homocystinuria (HCU) -

- Platform presentation and two poster presentations at SIMD Annual Meeting -

- \$77.6 million in cash, cash equivalents and marketable securities support projected runway into second half of 2024

Cambridge, Mass. March 29, 2023 – Synlogic, Inc. (Nasdaq: SYBX), the leading company advancing therapeutics based on synthetic biology, today reported financial results for the fourth quarter and full year ending December 31, 2022 and provided a business update.

"Last year was a tremendous year for Synlogic and our Synthetic Biotic platform given our three positive clinical readouts in three different diseases in the fourth quarter alone," said Aoife Brennan, M.B. Ch.B., Synlogic President and Chief Executive Officer. "We are on track to initiate Synpheny-3, the pivotal Phase 3 study for SYNB1934 in PKU, our lead program, and we were thrilled to present three data presentations – including Phase 2 PKU data as a platform presentation – at the SIMD Annual Meeting."

Fourth Quarter 2022 and Recent Highlights

- Received positive opinion on orphan designation from the European Medicines Agency (EMA) for SYNB1934 for PKU
- Presentation of data from both the Phase 2 Synpheny-1 study in PKU and the Phase 1 study with SYNB1353 for HCU at the Society for Inherited Metabolic Disorders (SIMD) 44th Annual Meeting
- Received Rare Pediatric Disease Designation (RPDD) from the U.S. Food and Drug Administration (FDA) for both:
 - SYNB1934 for PKU
 - SYNB1353 for HCU
- Announced positive top-line Phase 2 data for PKU; advancing SYNB1934 to Phase 3
- Demonstrated proof of mechanism for SYNB1353 for HCU, based on a top-line data from a Phase 1 study using a methionine meal challenge in healthy volunteers
- Proof of concept achieved with Phase 1b top-line data for SYNB8802 for enteric hyperoxaluria

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Anticipated Upcoming Milestones

- Initiation of Phase 3 clinical trial of SYNB1934 for PKU in the first half of 2023
- Advancing SYNB1353 to Phase 2 study in patients with HCU
- Presentation of data from Phase 1b studies of SYNB8802, in development for enteric hyperoxaluria
- Progression of preclinical pipeline programs, including partnerships

Corporate Updates

In January 2023, the company announced the appointment of Dr. Dave Hava as Head of Research and Development. Through the integration of the company's research and development teams, Dr. Hava oversees the advancement of clinical stage programs in addition to progressing our collaboration with Roche and select preclinical programs. Dr. Hava joined Synlogic in 2020, as Chief Scientific Officer, and continues to assume this position within the company.

Fourth Quarter 2022 Financial Results

As of December 31, 2022, Synlogic had cash, cash equivalents, and short-term marketable securities of \$77.6 million.

Revenue was \$0.1 million for the three months ended December 31, 2022, compared to \$0.6 million for the corresponding period in 2021. Revenue in both periods was associated with the ongoing research collaboration with Roche for the discovery of a novel Synthetic Biotic medicine for the treatment of IBD.

Research and development expenses were \$13.6 million for the three months ended December 31, 2022, compared to \$11.9 million for the corresponding period in 2021.

General and administrative expenses for the three months ended December 31, 2022 were \$3.8 million compared to \$3.9 million for the corresponding period in 2021.

For the three months ended December 31, 2022, Synlogic reported a consolidated net loss of \$16.7 million, or \$0.24 per share, compared to a consolidated net loss of \$15.1 million, or \$0.21 per share, for the corresponding period in 2021.

Full Year 2022 Financial Results

Revenues were \$1.2 million for the year ended December 31, 2022, compared to \$1.8 million for the same period in 2021. Revenue in both periods was associated with the ongoing research collaboration with Roche for the discovery of a novel Synthetic Biotic medicine for the treatment of IBD. Operating expenses were \$68.6 million for the year ended December 31, 2022, compared to \$62.5 million for the same period in 2021. For the year ended December 31, 2022, consolidated net loss was \$66.1 million, or \$0.92

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per share, compared to a consolidated net loss of \$60.6 million, or \$1.09 per share, for the year ended December 31, 2021.

Financial Outlook

Based upon its current operating plan and balance sheet as of December 31, 2022, Synlogic expects to have sufficient cash to be able to fund operations into the second half of 2024.

About Synlogic

Synlogic is the leading company advancing therapeutics based on synthetic biology. Synlogic's pipeline includes its lead program in phenylketonuria (PKU), which has demonstrated proof of concept with plans to start a pivotal, Phase 3 study in the first half of 2023, and additional novel drug candidates designed to treat homocystinuria (HCU), enteric hyperoxaluria and gout. The rapid advancement of these potential biotherapeutics, called Synthetic Biotics, has been enabled by Synlogic's reproducible, target-specific drug design. Synlogic uses programmable, precision genetic engineering of well-characterized probiotics to exert localized activity for therapeutic benefit, with a focus on metabolic and immunological diseases. In addition to its clinical programs, Synlogic has a research collaboration with Roche on the discovery of a novel Synthetic Biotic for the treatment of inflammatory bowel disease or IBD. Synlogic has also developed two drug candidates through a research collaboration with Ginkgo Bioworks: SYNB1353, designed to consume methionine for the potential treatment of HCU, and SYNB2081, designed to lower uric acid for the potential treatment of gout. For additional information visit www.synlogictx.com.

Forward-Looking Statements

This press release contains "forward-looking statements" that involve substantial risks and uncertainties for purposes of the safe harbor provided by the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, included in this press release regarding strategy, future operations, clinical development plans, future financial position, future revenue, projected expenses, prospects, plans and objectives of management are forward-looking statements. In addition, when or if used in this press release, the words "may," "could," "should," "anticipate," "believe," "look forward," "estimate," "expect," "intend," on track," "plan," "predict" and similar expressions and their variants, as they relate to Synlogic, may identify forward-looking statements. Examples of forward-looking statements, include, but are not limited to, statements regarding the potential of Synlogic's approach to Synthetic Biotics to develop therapeutics to address a wide range of diseases including: inborn errors of metabolism and inflammatory and immune disorders; our expectations about sufficiency of our existing cash balance; the future clinical development of Synthetic Biotics; the approach Synlogic's clinical trials of SYNB1934, SYNB1353, SYNB8802 and SYNB2081 and availability of clinical trial data. Actual results could

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differ materially from those contained in any forward-looking statements as a result of various factors, including: the uncertainties inherent in the clinical and preclinical development process; the ability of Synlogic to protect its intellectual property rights; and legislative, regulatory, political and economic developments, as well as those risks identified under the heading "Risk Factors" in Synlogic's filings with the U.S. Securities and Exchange Commission. The forward-looking statements contained in this press release reflect Synlogic's current views with respect to future events. Synlogic anticipates that subsequent events and developments will cause its views to change. However, while Synlogic may elect to update these forward-looking statements in the future, Synlogic specifically disclaims any obligation to do so. These forward-looking statements should not be relied upon as representing Synlogic's view as of any date subsequent to the date hereof.

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	(unaudite	d)					
For the three months ended				For the years ended			
December 31				December 31			
2022		2021		2022		2021	
\$	106	\$	592	\$	1,180	\$	1,754
	13,639		11,873		52,044		47,127
	3,770		3,864		16,555	44	15,392
	17,409		15,737		68,599	0	62,519
	(17,303)		(15,145)		(67,419)		(60,765)
	607		56		1,272		204
\$	(16,696)	\$	(15,089)	\$	(66,147)	\$	(60,561)
			(0.21)				
	\$	(unaudite For the three r Decem \$ 106 13,639 3,770 17,409 (17,303) 607	(unaudited) For the three months December 31 2022 \$ 106 \$ 13,639 3,770 17,409 (17,303) 607	For the three months ended December 31 2022 2021 \$ 106 \$ 592 13,639 11,873 3,864 3,770 3,864 15,737 (17,303) (15,145) 607 56	(unaudited) For the three months ended December 31 2022 2021 \$ 106 \$ 592 \$ 13,639 11,873 3,770 3,864 17,409 15,737 (17,303) (15,145) 607 56	(unaudited) For the three months ended December 31 For the ye December 31 2022 2021 2022 \$ 106 \$ 592 \$ 1,180 13,639 11,873 52,044 3,770 3,864 16,555 17,409 15,737 68,599 (67,419) 607 56 1,272	(unaudited) For the three months ended December 31 For the years ender December 31 2022 2021 2022

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Synlogic, Inc. **Condensed Consolidated Balance Sheets**

136,629

9,088

29,019

174,736

10,080

17,390

27,470

147,266

174,736

2,548,117

(in thousands, except share data) December 31, December 31, 2022 2021 Assets Cash, cash equivalents, & marketable securities \$ 77,629 \$ 7,323 Property and equipment, net Other assets 25,913 \$ 110,865 \$ Total assets Liabilities and stockholders' equity Current liabilities \$ \$ 12,122 Long-term liabilities 16,133 **Total liabilities** 28,255 \$ 82,610 \$ Total stockholders' equity Total liabilities and stockholders' equity \$ 110,865 \$ Common stock and common stock equivalents Common stock 66,736,251 69,698,844 Common stock warrants (pre-funded) 2,548,117 Total common stock 69,284,368 72,246,961

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