### **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): August 9, 2022

## **Assembly Biosciences, Inc.**

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

001-35005

20-8729264

(Commission File Number)

(IRS Employer Identification No.)

331 Oyster Point Blvd., Fourth Floor, South San Francisco, California (Address of Principal Executive Offices)

94080 (Zip Code)

Registrant's Telephone Number, Including Area Code: (833) 509-4583

**Not Applicable** (Former Name or Former Address, if Changed Since Last Report)

	k the appropriate box below if the Form 8-K filing is in wing provisions:	tended to simultaneously sa	atisfy the filing obligation of the registrant under any of the						
	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))								
Secu	rities registered pursuant to Section 12(b) of the Act:								
	Title of each class	Trading Symbol(s)	Name of each exchange on which registered						
	Common Stock, par value \$0.001	ASMB	The Nasdaq Global Select Market						
	rate by check mark whether the registrant is an emerging ter) or Rule 12b-2 of the Securities Exchange Act of 193		ed in Rule 405 of the Securities Act of 1933 (§ 230.405 of this pter).						
Eme	rging growth company								
	emerging growth company, indicate by check mark if the vised financial accounting standards provided pursuant	•	t to use the extended transition period for complying with any new hange Act. $\Box$						

#### Item 2.02 Results of Operations and Financial Condition.

On August 9, 2022, Assembly Biosciences, Inc. (the "Company") issued a press release announcing its financial results for the quarter ended June 30, 2022. A copy of the press release is attached hereto as Exhibit 99.1.

The information furnished with this Item 2.02, 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 into any other filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

#### Item 9.01 Financial Statements and Exhibits.

#### (d) Exhibits.

Exhibit Number	Description					
99.1	Press Release dated August 9, 2022.					
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).					
	1					

#### **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: August 9, 2022

Assembly Biosciences, Inc.

By: /s/ Jason A. Okazaki

Jason A. Okazaki President and Chief Operating Officer

#### Assembly Biosciences Reports Second Quarter 2022 Financial Results and Recent Highlights

SOUTH SAN FRANCISCO, Calif., August 9, 2022 (GLOBE NEWSWIRE) -- Assembly Biosciences, Inc. (Nasdaq: ASMB), a clinical-stage biotechnology company developing innovative, investigational therapeutics targeting hepatitis B virus (HBV) and other viral diseases, today announced financial results and recent highlights for the second guarter ended June 30, 2022.

"We are excited to advance clinical development of our next-generation, more potent core inhibitors and to continue the expansion of our pipeline. Our recently introduced small molecule interferon-α receptor agonist research program provides a complementary immunomodulatory approach to our HBV and HDV strategy that we believe can engage interferon-α's validated mechanism while limiting its substantial side effect profile. We also look forward to introducing our new viral targets outside of HBV in the third quarter of 2022, leveraging the deep antiviral expertise and experience of our research organization against diseases with significant unmet medical need," said John McHutchison, AO, MD, chief executive officer of Assembly Bio. "Additionally, we recently announced our data-driven decision to discontinue clinical development of our first-generation core inhibitor vebicorvir (VBR) and have restructured the organization to support our refocused clinical and pre-clinical pipeline, which has also extended our projected cash runway into the first half of 2024."

#### **Recent Updates**

- Introduced a new research program focused on a novel, small molecule interferon-α receptor (IFNAR) agonist designed to selectively activate the interferon-α pathway within the liver and offer the convenience of oral dosing, with the aim of engaging interferon-α's validated antiviral and immune modulatory mechanisms while reducing systemic exposure to improve tolerability.
- Initiated a randomized, multi-center double-blind and placebo-controlled Phase 1b trial of the company's next-generation investigational core inhibitor ABI-H3733 (3733) evaluating safety, pharmacokinetics and antiviral activity in adults with chronic HBV infection. Initial data are anticipated in the second half of 2022.
- Discontinued clinical development of first-generation investigational core inhibitor, VBR, and restructured the organization to prioritize advancement of the company's more potent next-generation core inhibitor candidates, 3733 and ABI-4334 (4334), and research activities, including its small molecule HBV/hepatitis delta virus (HDV) entry inhibitor, IFNAR agonist and two additional undisclosed viral targets.
- Conference Participation:
  - Bill Delaney, PhD, presented on May 31, 2022, at the Singapore Science of HBV Cure Meeting on "Progress in the Development in Core Inhibitors for the Treatment of Chronic Hepatitis B Infection."
  - Six posters were presented at the <u>International Liver Congress<sup>TM</sup> (ILC)</u>, the Annual Meeting of the European Association for the Study of the Liver (EASL), held June

22-26, 2022, including results from Assembly Bio's next-generation core inhibitor programs in the following posters:

- ABI-4334, a novel inhibitor of hepatitis B virus core protein, promotes formation of empty capsids and prevents cccDNA formation by disruption of incoming capsids
- Improving the pharmacokinetic profile of the hepatitis B virus core inhibitor ABI-H3733 following oral administration; results from new formulation activities

#### **Anticipated Milestones and Events**

- Announce expansion of research scope and exploratory research programs focused on other viruses outside of HBV in the third quarter of 2022. Assembly Bio plans to host a webcast to introduce two of the programs and details will be announced closer to the event.
- Initiate Phase 1a study for 4334 in 2H 2022.
- Report initial Phase 1b data for 3733 in 2H 2022.
- Report Phase 1a data for 4334 as early as year end.

#### **Upcoming Conferences**

- John McHutchison, AO, MD, chief executive officer, will present during the H.C. Wainwright 24th Annual Global Investment Conference, September 12-14, 2022.
- Nuruddin Unchwaniwala, PhD, scientist II, clinical virology, will present at the 2022 International HBV Meeting taking place September 18-20, 2022 on "Next generation core inhibitors demonstrate increased potency and distinct biochemical properties compared to first-generation core inhibitors."
- Grace Wang, MD, MS, RD, vice president, clinical development, will present at the International Workshop on HBV Cure 2022 taking place November 2, 2022 on "Next generation core inhibitors (capsid assembly modulators)."

#### **Second Quarter 2022 Financial Results**

- Cash, cash equivalents and marketable securities were \$128.6 million as of June 30, 2022, compared to \$146.5 million as of March 31, 2022. The company's cash position is projected to fund operations into the first half of 2024.
- **Research and development expenses** were \$17.8 million for the three months ended June 30, 2022, compared to \$16.7 million for the same period in 2021. The increase is primarily due to increases in our 3733, 4334 and research and discovery programs.
- **General and administrative expenses** were comparable year over year with \$6.8 million for the three months ended June 30, 2022 and \$6.9 million for the same period in 2021.

• Net loss attributable to common stockholders was \$24.5 million, or \$0.51 per basic and diluted share, for the three months ended June 30, 2022, compared to \$23.6 million, or \$0.55 per basic and diluted share, for the same period in 2021.

#### **About Assembly Biosciences**

Assembly Bio is a clinical-stage biotechnology company pioneering the development of therapeutics for viral diseases, including pursuing finite and potentially curative therapies for the 296 million people living with hepatitis B virus (HBV) worldwide. Assembly Bio is advancing a leading portfolio of more potent, next-generation core inhibitor drug candidates that aim to break the complex viral replication cycle of HBV and research programs focused on the discovery of additional novel antiviral mechanisms for HBV and other viral diseases. For more information, visit assemblybio.com.

#### **Forward-Looking Statements**

The information in this press release contains forward-looking statements that are subject to certain risks and uncertainties that could cause actual results to materially differ. These risks and uncertainties include: Assembly Bio's ability to successfully execute its reprioritization and restructuring activities; potential adverse legal, reputational, operational and financial effects on Assembly Bio resulting from the reprioritization and restructuring activities; Assembly Bio's ability to initiate and complete clinical studies involving its therapeutic product candidates, including studies contemplated by Assembly Bio's collaboration agreements, in the currently anticipated timeframes; safety and efficacy data from clinical studies may not warrant further development of Assembly Bio's product candidates; clinical and nonclinical data presented at conferences may not differentiate Assembly Bio's product candidates from other companies' candidates; results of nonclinical studies may not be representative of disease behavior in a clinical setting and may not be predictive of the outcomes of clinical studies; continued development and commercialization of ABI-H3733, if successful, in the China territory will be dependent on, and subject to, Assembly Bio's collaboration agreement governing this activity in the China territory; Assembly Bio's ability to maintain financial resources necessary to continue its clinical studies and fund business operations; any impact that the COVID-19 pandemic may have on Assembly Bio's business and operations, including initiation, enrollment and continuation of its clinical studies or timing of discussions with regulatory authorities; and other risks identified from time to time in Assembly Bio's reports filed with the U.S. Securities and Exchange Commission (the SEC). You are urged to consider statements that include the words may, will, would, could, should, might, believes, hopes, estimates, projects, potential, expects, plans, anticipates, intends, continues, forecast, designed, goal or the negative of those words or other comparable words to be uncertain and forward-looking. Assembly Bio intends such forward-looking statements to be covered by the safe harbor provisions contained in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. More information about Assembly Bio's risks and uncertainties are more fully detailed under the heading "Risk Factors" in Assembly Bio's filings with the SEC, including its most recent Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and Current Reports on Form 8-K. Except as required by law, Assembly Bio assumes no obligation to update publicly any forward-looking statements, whether as a result of new information, future events or otherwise.

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# ASSEMBLY BIOSCIENCES, INC. CONDENSED CONSOLIDATED BALANCE SHEETS

(In thousands except for share amounts and par value)

	June 30, 2022		D	December 31, 2021	
	(U	naudited)			
ASSETS					
Current assets					
Cash and cash equivalents	\$	43,063	\$	45,627	
Marketable securities - short-term		73,626		101,000	
Accounts receivable from collaborations		523		336	
Prepaid expenses and other current assets		7,082		7,241	
Total current assets		124,294		154,204	
Marketable securities - long-term		11,908		27,972	
Property and equipment, net		899		1,139	
Operating lease right-of-use (ROU) assets		4,711		6,042	
Other assets		1,635		1,703	
Total assets	\$	143,447	\$	191,060	
LIABILITIES AND STOCKHOLDERS' EQUITY					
Current liabilities					
Accounts payable	\$	2,454	\$	2,659	
Accrued research and development expenses	•	4,446	*	3,400	
Other accrued expenses		4,750		6,863	
Operating lease liabilities - short-term		3,311		3,151	
Total current liabilities		14,961		16,073	
Deferred revenue		2,733		2,733	
Operating lease liabilities - long-term		1,773		3,325	
Total liabilities		19,467		22,131	
Commitments and contingencies					
Stockholders' equity					
Preferred stock, \$0.001 par value; 5,000,000 shares authorized; no shares issued or outstanding				_	
Common stock, \$0.001 par value; 150,000,000 and 100,000,000 shares authorized as of June 30, 2022 and December 31, 2021, respectively; 48,362,736 and 48,120,437 shares issued and					
outstanding as of June 30, 2022 and December 31, 2021, respectively		48		48	
Additional paid-in capital		803,910		800,728	
Accumulated other comprehensive loss		(998)		(419)	
Accumulated deficit		(678,980)		(631,428)	
Total stockholders' equity		123,980		168,929	
Total liabilities and stockholders' equity	\$	143,447	\$	191,060	
total nabilities and stockholders equity	<b>D</b>	143,447	Φ	191,000	

## ${\bf ASSEMBLY~BIOSCIENCES, INC.}\\ {\bf CONDENSED~CONSOLIDATED~STATEMENTS~OF~OPERATIONS~AND~COMPREHENSIVE~LOSS}$

(In thousands except for share and per share amounts) (Unaudited)

	Three Months Ended June 30,			Six Months Ended June 30,				
		2022		2021		2022		2021
Operating expenses:								
Research and development	\$	17,792	\$	16,749	\$	34,997	\$	35,303
General and administrative		6,781		6,917		12,738		15,621
Total operating expenses		24,573		23,666		47,735		50,924
Loss from operations		(24,573)		(23,666)		(47,735)		(50,924)
Other income:								
Interest and other income, net		112		71		183		129
Total other income		112		71		183		129
Net loss	\$	(24,461)	\$	(23,595)	\$	(47,552)	\$	(50,795)
Other comprehensive loss								
Unrealized loss on marketable securities		(90)		(2)		(579)		(3)
Comprehensive loss	\$	(24,551)	\$	(23,597)	\$	(48,131)	\$	(50,798)
Net loss per share, basic and diluted	\$	(0.51)	\$	(0.55)	\$	(0.99)	\$	(1.23)
Weighted average common shares outstanding, basic and diluted		48,293,495		42,876,268		48,208,735		41,286,831