# **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): November 8, 2023

# Assembly Biosciences, Inc. (Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

001-35005

(Commission File Number)

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

20-8729264 (IRS Employer Identification No.)

> 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)

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)

П 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	ASMB	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  $\Box$ 

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 November 8, 2023, Assembly Biosciences, Inc. (the "Company") issued a press release announcing its financial results for the quarter ended September 30, 2023. 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 November 8, 2023.
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.

Assembly Biosciences, Inc.

By: /s/ John O. Gunderson John O. Gunderson VP, General Counsel and Corporate Secretary

2

Date: November 8, 2023

# Assembly Biosciences Reports Third Quarter 2023 Financial Results and Recent Updates

- Established partnership with Gilead Sciences to advance differentiated treatments for herpesviruses, HBV, HDV and beyond
- Now anticipate four development candidates from expanded pipeline in clinical development by the end of 2024
- Named Anuj Gaggar, MD, PhD, as chief medical officer
- \$100 million up front payment and investment received from Gilead in October extends projected cash runway into 2H 2025

SOUTH SAN FRANCISCO, Calif., November 8, 2023 -- Assembly Biosciences, Inc. (Nasdaq: ASMB), a biotechnology company developing innovative antiviral therapeutics targeting serious viral diseases, today reported financial results for the third quarter ended September 30, 2023, and recent corporate updates.

"The Assembly Bio team has made exceptional progress in building a portfolio of promising antiviral candidates for herpesviruses, hepatitis B and hepatitis D," said Jason Okazaki, chief executive officer and president of Assembly Bio. "With our new long-term partnership with Gilead, a pioneer in virology, we are excited by the opportunity to accelerate progress on our antiviral pipeline to bring next-generation therapeutics to individuals living with serious viral infections. We believe that the financial and scientific resources provided by the collaboration position us well to reach critical short- and long-term milestones and deliver value for patients and our shareholders. We are also pleased to announce the addition of Dr. Anuj Gaggar to our leadership team as chief medical officer as we look ahead to having multiple antiviral candidates in the clinic next year."

# Third Quarter 2023 and Recent Updates

- Entered a long-term partnership with Gilead Sciences to advance discovery and development of novel antiviral therapies.
  - Collaboration combines Assembly Bio's advanced virology research capabilities with Gilead's established development and commercialization expertise in antiviral medicines to create a synergistic partnership focused on propelling scientific innovation and delivering new treatments to patients with significant unmet need.
  - Partnership includes Gilead opt-in rights on Assembly Bio's current and future pipeline candidates, including two contributed Gilead herpesvirus programs.
  - \$100 million upfront investment by Gilead, including equity investment, plus potential for future regulatory, commercial, opt-in and collaboration extension payments, provides runway to drive portfolio growth and support advancement of company's current and future clinical and preclinical programs.
- Strengthened the leadership team with the naming of Anuj Gaggar, MD, PhD, as chief medical officer, as announced separately today. Dr. Gaggar is an infectious disease specialist who has focused on the development of new therapies in viral diseases

including chronic hepatitis B virus (HBV), hepatitis C virus and hepatitis D virus (HDV) infections.

- Nominated first development candidate for the treatment of chronic HDV infection. ABI-6250, an orally bioavailable small molecule entry inhibitor, is moving toward IND-enabling studies with the goal of beginning clinical studies by the end of 2024.
- Presented preclinical data in two oral and one poster presentation highlighting the progress of multiple HBV and HDV pipeline programs at the 2023 International HBV Meeting held September 19-23, 2023.

# **Anticipated Milestones**

Assembly Bio anticipates having four candidates in clinical studies by the end of 2024:

- ABI-5366, a long-acting helicase-primase inhibitor targeting high-recurrence genital herpes, is expected to enter the clinic by mid-2024.
- The herpes simplex virus (HSV) helicase-primase inhibitor candidate contributed by Gilead is expected to enter the clinic by the end of 2024.
- ABI-4334, a potent next-generation capsid assembly modulator for HBV, has completed Phase 1a development and is expected to enter Phase 1b by mid-2024.
- ABI-6250, a HDV entry inhibitor, is expected to enter the clinic by the end of 2024.

# **Upcoming Conferences**

• Preclinical and clinical data from the company's viral hepatitis portfolio will be highlighted in two presentations at the American Association for the Study of Liver Diseases (AASLD), The Liver Meeting<sup>\*</sup>, taking place November 10-14, 2023, in Boston.

# **Third Quarter 2023 Financial Results**

- **Cash, cash equivalents and marketable securities** were \$46.2 million as of September 30, 2023, compared to \$59.8 million as of June 30, 2023. With the \$100 million received from Gilead in October, Assembly Bio's cash position is projected to fund operations into the second half of 2025.
- Research and development expenses were \$10.8 million for the three months ended September 30, 2023, compared to \$18.1 million for the same period in 2022. The decrease is due to completion of the clinical trials for ABI-3733 and ABI-4334, discontinued development of vebicorvir and ABI-2158, and decreases in employee and contractor-related expenses.
- **General and administrative expenses** were \$4.2 million for the three months ended September 30, 2023, compared to \$5.3 million for the same period in 2022. The decrease is due to overall cost-saving initiatives.
- Net loss attributable to common stockholders was \$14.4 million, or \$0.27 per basic and diluted share, for the three months ended September 30, 2023, compared to \$23.1 million, or \$0.48 per basic and diluted share, for the same period in 2022.

# **About Assembly Biosciences**

Assembly Biosciences is a biotechnology company dedicated to the development of innovative small-molecule antiviral therapeutics designed to change the path of serious viral diseases and improve the lives of patients worldwide. Led by an accomplished team of leaders in virologic drug development, Assembly Bio is committed to improving outcomes for patients struggling with the serious, chronic impacts of herpesvirus, hepatitis B virus (HBV) and hepatitis delta virus (HDV) infections. 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 realize the potential benefits of its collaboration with Gilead, including all financial aspects of the collaboration and equity investments; Assembly Bio's ability to initiate and complete clinical studies involving its therapeutic product candidates, including studies contemplated by Assembly Bio's collaboration with Gilead, in the currently anticipated timeframes or at all; the occurrence of any event, change or other circumstance that could give rise to the termination of Assembly Bio's collaboration with Gilead; safety and efficacy data from clinical or nonclinical 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; 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 forwardlooking. 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.

### Contacts

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# ASSEMBLY BIOSCIENCES, INC. CONDENSED CONSOLIDATED BALANCE SHEETS

(In thousands except for share amounts and par value)

	September 30, 2023		December 31, 2022	
	(U	Inaudited)		
ASSETS				
Current assets				
Cash and cash equivalents	\$	26,656	\$	52,418
Marketable securities		19,554		39,192
Accounts receivable from collaboration		_		944
Prepaid expenses and other current assets		3,462		4,413
Total current assets		49,672		96,967
Property and equipment, net		561		743
Operating lease right-of-use assets		844		3,195
Other assets		552		889
Total assets	\$	51,629	\$	101,794
LIABILITIES AND STOCKHOLDERS' EQUITY				
Current liabilities				
Accounts payable	\$	758	\$	2,493
Accrued research and development expenses	Ŷ	1,619	Ŷ	3,122
Other accrued expenses		3,886		7.317
Operating lease liabilities - short-term		869		3,364
Total current liabilities		7,132		16,296
Deferred revenue		2,733		2,733
Operating lease liabilities - long-term		50		101
Total liabilities		9,915		19,130
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 shares authorized as of September 30, 2023 and December 31, 2022; 52,614,194 and 48,894,973 shares issued and outstanding as of September 30,				
2023 and December 31, 2022, respectively		53		49
Additional paid-in capital		816,722		807,938
Accumulated other comprehensive loss		(275)		(803
Accumulated deficit		(774,786)		(724,520
Total stockholders' equity		41,714		82,664
Total liabilities and stockholders' equity	\$	51,629	\$	101,794

# ASSEMBLY BIOSCIENCES, INC. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS

(In thousands except for share and per share amounts)

(Unaudited)

	Three Months Ended September 30,				Nine Months Ended September 30,			
		2023		2022		2023		2022
Operating expenses								
Research and development	\$	10,824	\$	18,130	\$	37,894	\$	53,127
General and administrative		4,224		5,271		14,201		18,009
Total operating expenses		15,048		23,401	_	52,095		71,136
Loss from operations		(15,048)		(23,401)		(52,095)		(71,136)
Other income								
Interest and other income, net		628		256		1,829		439
Total other income		628		256		1,829		439
Net loss	\$	(14,420)	\$	(23,145)	\$	(50,266)	\$	(70,697)
Other comprehensive loss								
Unrealized gain (loss) on marketable securities		50		(1)		528		(580)
Comprehensive loss	\$	(14,370)	\$	(23,146)	\$	(49,738)	\$	(71,277)
Net loss per share, basic and diluted	\$	(0.27)	\$	(0.48)	\$	(0.97)	\$	(1.46)
Weighted average common shares outstanding, basic and diluted		52,565,333		48,448,399		51,951,123		48,289,501