UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

Emerging growth company \square

		WASHINGTON, D.C. 2054	49
		FORM 8-K	
		CURRENT REPORT	
Purs	uant to Section 1	13 or 15(d) of the Securities	s Exchange Act of 1934
	Date of Report (Date of earliest event reported):	November 8, 2022
	Assen	mbly Bioscience	es, Inc.
Delaware (State or Other Jurisdiction of Incorporation)		001-35005 (Commission File Number)	20-8729264 (IRS Employer Identification No.)
331 Oyster Point Blvd., Fourth South San Francisco, Califo (Address of Principal Executive Offi	rnia		94080 (Zip Code)
	Registrant's Telep	ohone Number, Including Area (Code: (833) 509-4583
	(Former N	Not Applicable iame or Former Address, if Changed Since	e Last Report)
Check the appropriate box below if the following provisions:	Form 8-K filing is in	ntended to simultaneously satisfy	the filing obligation of the registrant under any of the
☐ Written communications pursuan	nt to Rule 425 under	the Securities Act (17 CFR 230.42	25)
☐ Soliciting material pursuant to R	ule 14a-12 under the	Exchange Act (17 CFR 240.14a-	12)
☐ Pre-commencement communication	tions pursuant to Rul	e 14d-2(b) under the Exchange Ad	et (17 CFR 240.14d-2(b))
☐ Pre-commencement communication	tions pursuant to Rul	e 13e-4(c) under the Exchange Ac	et (17 CFR 240.13e-4(c))
Securities registered pursuant to Section	n 12(b) of the Act:		
Title of each class		Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value	e \$0.001	ASMB	The Nasdaq Global Select Market
Indicate by check mark whether the reg chapter) or Rule 12b-2 of the Securities			Rule 405 of the Securities Act of 1933 (§ 230.405 of this

Item 2.02 Results of Operations and Financial Condition.

On November 8, 2022, Assembly Biosciences, Inc. (the "Company") issued a press release announcing its financial results for the quarter ended September 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 November 8, 2022.
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.

Assembly Biosciences, Inc.

Date: November 8, 2022

By: /s/ John O. Gunderson

John O. Gunderson

VP, General Counsel and Corporate Secretary

Assembly Biosciences Reports Third Quarter 2022 Financial Results and Recent Highlights and Announces Upcoming Conference Participation

Phase 1a Trial of Next-Generation Core Inhibitor, ABI-4334, Now Underway Following Clinical Trial Application (CTA) Clearance

SOUTH SAN FRANCISCO, Calif., November 8, 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 third quarter ended September 30, 2022.

"During the third quarter, we have advanced clinical development of both of our next-generation, more potent, core inhibitors with the Phase 1b study of 3733 on track to report initial data by the end of this year and the initiation of the first clinical study for 4334," said John McHutchison, AO, MD, chief executive officer of Assembly Bio. "This quarter also marked the further expansion of our pipeline with the introduction of our first research programs outside of HBV and hepatitis delta virus (HDV). These programs, targeting high-recurrence genital herpes and transplant-associated herpesviruses, apply the deep expertise of our organization in small molecule antiviral drug development to develop differentiated approaches for viral diseases with significant unmet medical need. We are thrilled with the progress of our preclinical and clinical programs, and we remain encouraged about the potential for our next-generation core inhibitors with the recently presented data at AASLD and upcoming clinical data readout for 3733."

Recent Updates

- Received CTA clearance and initiated a blinded, placebo-controlled Phase 1a trial in New Zealand of the company's next-generation investigational core inhibitor, ABI-4334 (4334), evaluating safety, tolerability and pharmacokinetics of single and multiple ascending doses of 4334 in healthy subjects.
- Introduced the first two new research programs expanding Assembly Bio's portfolio beyond HBV and hepatitis delta virus (HDV):
 - A long-acting herpes simplex virus type 2 (HSV-2) helicase inhibitor to treat high-recurrence genital herpes, and
 - A pan-herpes non-nucleoside polymerase inhibitor to treat multiple transplant-associated herpesvirus infections.
- Announced the retirement of John McHutchison as chief executive officer (CEO) effective at the end of 2022 and the
 election of Jason Okazaki, currently president and chief operating officer, to succeed Dr. McHutchison as CEO and
 president and a member of the board of directors. Dr. McHutchison will continue to serve on the board of directors and
 assume the role of chair of the Science and Technology Committee.
- Presented four posters at the American Association for the Study of Liver Diseases (AASLD) The Liver Meeting®, held November 4-8, 2022, including results from Assembly Bio's next-generation core inhibitor 4334 and the first presentations of data from the

company's HBV/HDV entry inhibitor and interferon- α receptor (IFNAR) agonist research programs:

- ABI-4334, a novel hepatitis B virus core inhibitor, accelerates capsid assembly and inhibits cccDNA formation via multiple pathways
- Preclinical characterization of a novel class of highly potent small molecule hepatitis B and D virus entry inhibitors
- Preclinical characterization of a novel liver-focused small molecule efficiently inhibiting hepatitis B virus by activating type I interferon signaling
- Evaluation of the vebicorvir, NrtI, and AB-729 combination in virologically suppressed patients with HBeAg negative chronic hepatitis B virus infection: Interim analysis from an open label Phase 2 study
- Additional Conference Participation:
 - Presented at the International Workshop on HBV Cure 2022 held November 2, 2022, on "Next generation core inhibitors (capsid assembly modulators)."
 - Presented at the 2022 International HBV Meeting held September 18-20, 2022, on "Next generation core
 inhibitors demonstrate increased potency and distinct biochemical properties compared to first-generation
 core inhibitors."
 - Presented at Discovery on Target 2022 held October 17-20, 2022, on "HBV core inhibitors for the treatment of chronic viral infection."
 - Mr. Okazaki and William Delaney, PhD, chief scientific officer, presented during the H.C. Wainwright 3rd Annual HBV Virtual Conference held October 18, 2022.
 - Dr. McHutchison presented during the H.C. Wainwright 24th Annual Global Investment Conference held September 12-14, 2022.

Anticipated Milestones and Events

- Initial Phase 1b data for ABI-H3733 (3733) in 2H 2022.
- Full Phase 1b data for 3733 in 1H2023.
- Full Phase 1a data for 4334 in 1H2023.
- Two development candidate nominations from Assembly Bio's expanded research portfolio in 2023.

Upcoming Conferences

• Mr. Okazaki and Dr. Delaney will present in a fireside chat during the Jefferies London Healthcare Conference at 5:35 p.m. GMT on November 15, 2022. A live webcast will be available on the Events and Presentations section of Assembly Bio's website and a replay will be accessible following the event. To register for the live webcast and replay, please visit https://investor.assemblybio.com/events-presentations.

Third Quarter 2022 Financial Results

• Cash, cash equivalents and marketable securities were \$108.7 million as of September 30, 2022, compared to \$128.6 million as of June 30, 2022. The company's cash position is projected to fund operations into the first half of 2024.

- Research and development expenses were \$18.1 million for the three months ended September 30, 2022, compared to \$18.5 million for the same period in 2021. The decrease is primarily due to the discontinued development of ABI-H2158 and VBR, partially offset by increases in our 3733, 4334 and research and discovery programs.
- **General and administrative expenses** were \$5.3 million for the three months ended September 30, 2022, compared to \$6.7 million for the same period in 2021. The decrease is primarily due to a decrease in professional fees.
- **Net loss attributable to common stockholders** was \$23.1 million, or \$0.48 per basic and diluted share, for the three months ended September 30, 2022, compared to \$18.8 million, or \$0.41 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 novel therapeutics for serious viral diseases. 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 hepatitis B virus (HBV) to achieve finite and potentially curative therapies for the 296 million people living with HBV worldwide. The company's research pipeline includes differentiated antiviral approaches against HBV/hepatitis delta virus and herpesviruses. 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 previously announced reprioritization and restructuring activities, including the CEO transition; 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)

	S	September 30, 2022		December 31, 2021	
	((Unaudited)			
ASSETS					
Current assets					
Cash and cash equivalents	\$	54,673	\$	45,627	
Marketable securities - short-term		53,978		101,000	
Accounts receivable from collaborations		1,246		336	
Prepaid expenses and other current assets		5,181		7,241	
Total current assets		115,078		154,204	
Marketable securities - long-term		_		27,972	
Property and equipment, net		867		1,139	
Operating lease right-of-use (ROU) assets		3,958		6,042	
Other assets		1,613		1,703	
Total assets	\$	121,516	\$	191,060	
LIABILITIES AND STOCKHOLDERS' EQUITY					
Current liabilities					
Accounts payable	\$	1,942	\$	2,659	
Accrued research and development expenses		4,462		3,400	
Other accrued expenses		5,686		6,863	
Operating lease liabilities - short-term		3,371		3,151	
Total current liabilities		15,461		16,073	
Deferred revenue		2,733		2,733	
Operating lease liabilities - long-term		918		3,325	
Total liabilities		19,112		22,131	
Commitments and contingencies					
Stockholders' equity					
Preferred stock, \$0.001 par value; 5,000,000 shares authorized; no shares issued or outstanding		<u> </u>		_	
Common stock, \$0.001 par value; 150,000,000 and 100,000,000 shares authorized as of September 30, 2022 and December 31, 2021, respectively; 48,481,194 and 48,120,437 shares issued and outstanding					
as of September 30, 2022 and December 31, 2021, respectively		48		48	
Additional paid-in capital		805,480		800,728	
Accumulated other comprehensive loss		(999)		(419)	
Accumulated deficit		(702,125)		(631,428)	
Total stockholders' equity		102,404		168,929	
Total liabilities and stockholders' equity	\$	121,516	\$	191,060	

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

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

	Three Months Ended September 30,		Nine Months Ended September 30,				
		2022	2021		2022		2021
Collaboration revenue	\$		\$ 6,254	\$	_	\$	6,254
Operating expenses:							
Research and development		18,130	18,474		53,127		53,777
General and administrative		5,271	6,655		18,009		22,276
Total operating expenses		23,401	25,129		71,136		76,053
Loss from operations		(23,401)	(18,875)		(71,136)		(69,799)
Other income:							
Interest and other income, net		256	72		439		201
Total other income		256	72		439		201
Net loss	\$	(23,145)	\$ (18,803)	\$	(70,697)	\$	(69,598)
Other comprehensive loss							
Unrealized loss on marketable securities		(1)	(15)		(580)		(18)
Comprehensive loss	\$	(23,146)	\$ (18,818)	\$	(71,277)	\$	(69,616)
					_		
Net loss per share, basic and diluted	\$	(0.48)	\$ (0.41)	\$	(1.46)	\$	(1.63)
Weighted average common shares outstanding, basic and diluted		48,448,399	45,569,276		48,289,501		42,725,109