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): May 6, 2021

Assembly Biosciences, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

001-35005 (Commission File Number) 20-8729264

(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)

	ck the appropriate box below if the Form 8-K filing is intende twing provisions:	ed to simultaneously satisfy	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	urities 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				
	cate by check mark whether the registrant is an emerging grov ter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§	1 5	· ·				
Eme	rging growth company \square						
	emerging growth company, indicate by check mark if the reg evised financial accounting standards provided pursuant to Sec	-	se the extended transition period for complying with any new e Act. \Box				

Item 2.02 Results of Operations and Financial Condition.

On May 6, 2021, Assembly Biosciences, Inc. (the "Company") issued a press release announcing its financial results for the quarter ended March 31, 2021. 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 May 6, 2021.
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: May 6, 2021

Assembly Biosciences, Inc.

By: /s/ Jason A. Okazaki

Jason A. Okazaki Chief Legal and Business Officer



Assembly Biosciences Reports First Quarter 2021 Financial Results and Recent Updates

SOUTH SAN FRANCISCO, CA, May 6, 2021 -- Assembly Biosciences, Inc. (Nasdaq: ASMB), a clinical-stage biotechnology company developing innovative therapeutics targeting hepatitis B virus (HBV), today reported financial results and recent updates for the first quarter ended March 31, 2021.

"In the first quarter of 2021, we solidified all our efforts and focus on hepatitis B and the sole pursuit of finite and curative therapies to replace burdensome life-long treatment regimens for the more than 250 million people living with this disease," said John McHutchison, AO, MD, Chief Executive Officer and President of Assembly Bio. "Our strategy is clear and we have made significant progress, continuing to advance all our clinical programs while expanding and accelerating our novel discovery efforts. We are particularly excited that our first Phase 2 proof-of-concept triple combination studies – key drivers of our clinical strategy – are now underway."

Recent Updates

- Initiated two triple combination studies:
 - Phase 2 study evaluating Assembly Bio's lead core inhibitor candidate, vebicorvir (VBR), with standard-of-care nucleos(t)ide reverse transcriptase inhibitor (Nrtl) therapy and Arbutus Biopharma's RNAi therapeutic candidate, AB-729
 - O Phase 2 study evaluating VBR with Nrtl therapy and interferon (peg-IFNα)

Anticipated Milestones and Events

- Nominate a fourth core inhibitor candidate with a best-in-class profile in Q2 2021
- Interim data from Phase 2 study with ABI-H2158 in H2 2021

Upcoming Conferences

- Chief Scientific Officer, William Delaney, PhD, to present at the <u>Chronic Hepatitis B Drug Development Virtual Summit</u>, May 6, 2021, during a session on "Targeting HBV Core Protein to Improve Treatment for cHBV patients."
- Jefferies Global Healthcare Conference: June 1-3, 2021
- <u>The International Liver Congress™(ILC)</u>, the Annual Meeting of the European Association for the Study of the Liver (EASL) taking place virtually June 23-26, 2021 Assembly Bio has three abstracts accepted for presentation:

- O Enhanced potency and target coverage for both antiviral inhibition and cccDNA establishment of next generation core inhibitors ABI-H2158 and ABI-H3733
- Viral response and safety following treatment discontinuation in Study 211, the open-label extension study of VBR in combination with Nrtl therapy
- No emergent core inhibitor resistance in patients with chronic HBV infection treated with VBR in combination with NrtI

First Quarter 2021 Financial Results

- Cash, cash equivalents and marketable securities were \$214.9 million as of March 31, 2021, compared to \$216.4 million as of December 31, 2020. This result includes \$34.1 million of net proceeds from the issuance of common shares under Assembly Bio's at-the-market (ATM) program. The company's cash position is projected to fund operations into 2023.
- Revenues from collaborative research were \$0 for the three months ended March 31, 2021, compared to \$4.1 million for the same period in 2020. The decrease is due to the termination of the microbiome collaboration agreement with Allergan Pharmaceuticals following AbbVie Inc's acquisition of Allergan. In Q1 2021 Assembly Bio completed the previously announced winddown of its microbiome program.
- Research and development expenses were \$18.6 million for the three months ended March 31, 2021, compared to \$23.0 million for the same period in 2020. The decrease is primarily due to a decrease of \$8.2 million related to the wind-down of Assembly Bio's microbiome program. This decrease was partially offset by an increase of \$3.7 million in research and development expenses related to the company's HBV program. Research and development expenses include non-cash stock-based compensation expenses of \$(2.1) million for the three months ended March 31, 2021 and \$1.9 million for the same period in 2020. The decrease is primarily due to the reversal of \$2.4 million of previously recognized stock-based compensation expense related to forfeited awards of former microbiome program employees.
- **General and administrative expenses** were \$8.7 million for both the three months ended March 31, 2021 and 2020. General and administrative expenses include non-cash stock-based compensation expenses of \$1.8 million for the three months ended March 31, 2021 and \$3.0 million for the same period in 2020.
- Net loss attributable to common stockholders was \$27.2 million, or \$0.69 per basic and diluted share, for the three months ended March 31, 2021, compared to \$26.7 million, or \$0.76 per basic and diluted share, for the same period in 2020.

About Assembly Biosciences

Assembly Bio is a clinical-stage biotechnology company committed to bringing finite and curative therapies to the 270 million people living with hepatitis B virus (HBV) worldwide. A pioneer in the development of a new class of potent, oral core inhibitor drug candidates, Assembly Bio's approach aims to break the complex viral replication cycle of HBV to free patients from a lifetime of therapy. Assembly Bio's strategy toward cure includes a leading portfolio of more potent, next-generation core inhibitors, proof-of-

concept combination studies and a research program focused on the discovery of novel HBV targets. For more information, visit <u>assemblybio.com</u>.

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 initiate and complete clinical studies involving its therapeutic product candidates, including studies contemplated by Assembly Bio's clinical 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; continued development and commercialization of Assembly Bio's product candidates, if successful, in the China territory will be dependent on, and subject to, Assembly Bio's collaboration agreement governing its 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 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.

Contacts

Investor and Corporate:
Lauren Glaser
Senior Vice President, Investor Relations and Corporate Affairs
(415) 521-3828
Iglaser@assemblybio.com

Media: Sam Brown Inc. Audra Friis (917) 519-9577 ASMBMedia@sambrown.com

ASSEMBLY BIOSCIENCES, INC. CONDENSED CONSOLIDATED BALANCE SHEETS (In thousands except for share amounts and par value)

		March 31, 2021		December 31, 2020	
	(L	Jnaudited)			
ASSETS					
Current assets					
Cash and cash equivalents	\$	78,253	\$	59,444	
Marketable securities		136,631		156,969	
Accounts receivable from collaborations		203		1,230	
Prepaid expenses and other current assets		6,547		6,850	
Total current assets		221,634		224,493	
Property and equipment, net		1,493		1,600	
Operating lease right-of-use (ROU) assets		8,104		9,131	
Other assets		6,034		6,392	
Indefinite-lived intangible asset		29,000		29,000	
Goodwill		12,638		12,638	
Total assets	\$	278,903	\$	283,254	
LIABILITIES AND STOCKHOLDERS' EQUITY					
Current liabilities					
Accounts payable	\$	3,562	\$	4,598	
Accrued clinical expenses		4,342		4,444	
Other accrued expenses		3,659		11,987	
Operating lease liabilities - short-term		2,934		3,404	
Total current liabilities		14,497		24,433	
Deferred tax liabilities		2,531		2,531	
Deferred revenue		8,987		8,987	
Operating lease liabilities - long-term		5,644		6,725	
Total liabilities		31,659		42,676	
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; 100,000,000 shares authorized as of March 31, 2021 and		_		_	
December 31, 2020; 40,104,684 and 34,026,680 shares issued and outstanding as of March 31, 2021 and December 31, 2020, respectively		40		34	
Additional paid-in capital		776,248		742,387	
Accumulated other comprehensive loss		(271)		(270)	
Accumulated deficit		(528,773)		(501,573)	
Total stockholders' equity		247,244		240,578	
···· ··· · · · · · · · · · · · · · · ·		278,903		283,254	

ASSEMBLY BIOSCIENCES, INC. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS (In thousands except for share and per share amounts) (Unaudited)

	Three Months Ended March 31,			
	 2021			
Collaboration revenue	\$ _	\$	4,081	
Operating expenses:				
Research and development	18,554		23,046	
General and administrative	 8,704		8,729	
Total operating expenses	27,258		31,775	
Loss from operations	(27,258)		(27,694)	
Other income:				
Interest and other income, net	58		1,039	
Total other income	58		1,039	
Net loss	\$ (27,200)	\$	(26,655)	
Other comprehensive (loss) income				
Unrealized (loss) gain on marketable securities	(1)		115	
Comprehensive loss	\$ (27,201)	\$	(26,540)	
Net loss per share, basic and diluted	\$ (0.69)	\$	(0.76)	
Weighted average common shares outstanding, basic and diluted	39,679,734		35,079,756	