

OMB APPROVAL	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Hirsch David</u>  (Last) (First) (Middle) <u>C/O LONGITUDE CAPITAL PARTNERS II, LLC</u> <u>2740 SAND HILL ROAD, SECOND FLOOR</u>  (Street) <u>MENLO PARK CA 94025</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>RAPID MICRO BIOSYSTEMS, INC. [ RPID ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner  Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>07/19/2021</u>	
4. If Amendment, Date of Original Filed (Month/Day/Year)		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person  Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Class A Common Stock	07/19/2021		C		3,344,038	A	(1)	3,407,952	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Series A1 Preferred Stock	(1)	07/19/2021		C		8,774,007		(1)	(1)	Class A Common Stock	1,754,801	(1)	0	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>
Series B1 Preferred Stock	(1)	07/19/2021		C		5,654,529		(1)	(1)	Class A Common Stock	1,130,904	(1)	0	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>
Series C1 Preferred Stock	(1)	07/19/2021		C		2,291,665		(1)	(1)	Class A Common Stock	458,333	(1)	0	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>
Series A1 Warrant	\$0.01	07/19/2021		C <sup>(3)</sup>		2,500,000		(4)	07/24/2027	Series A1 Preferred Stock	2,500,000	(3)	0	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>
Common Stock Warrant	\$0.05	07/19/2021		C		500,000		(4)	07/24/2027	Class A Common Stock	500,000	(3)	500,000	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>
Series B1 Warrant	\$0.01	07/19/2021		C <sup>(3)</sup>		645,160		(3)	01/17/2028	Series B1 Preferred Stock	645,160	(3)	0	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>
Common Stock Warrant	\$0.05	07/19/2021		C		129,032		(4)	01/17/2028	Class A Common Stock	129,032	(3)	129,032	I	Held by Longitude Venture Partners II, L.P. <sup>(2)</sup>

Explanation of Responses:

- The Series A1 Preferred Stock, Series B1 Preferred Stock and Series C1 Preferred Stock (collectively, the "Preferred Stock") are convertible at any time, at the holder's election and have no expiration date. Each share of Preferred Stock automatically converted into 0.20 shares of the Issuer's Class A Common Stock upon the closing of the Issuer's initial public offering.
- The securities are held directly by Longitude Venture Partners II, L.P. ("LVP II"). Longitude Capital Partners II, LLC ("LCP II"), the general partner of LVP II, may be deemed to have voting and investment power with respect to the shares held by LVP II. The Reporting Person is a member of LCP II and may be deemed to share voting and investment power over the shares of the issuer held by LCP II. LCP II and Dr. Hirsch disclaim beneficial ownership of such shares except to the extent of their respective pecuniary interests therein.
- The Issuer's Preferred Stock warrants automatically converted into warrants to purchase Common Stock immediately prior to the closing of the Issuer's initial public offering without payment or further consideration. The transaction is listed solely for the purpose of reporting the change in the shares underlying the warrants.
- Immediately exercisable.

/s/ Jonathan Paris, Attorney-in-Fact for David Hirsch

07/20/2021

\*\* Signature of Reporting Person

Date

\* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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