

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2021 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2021 or fiscal plan year beginning <u>01/01/2021</u> and ending <u>12/31/2021</u>	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here.	☐
D Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.	☐

Part II	Basic Plan Information—enter all requested information				
1a Name of plan <u>RAPID MICRO BIOSYSTEMS, INC. 401(K) PLAN</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">1b Three-digit plan number (PN) ▶</td> <td style="width: 20%; text-align: center;"><u>001</u></td> </tr> <tr> <td colspan="2">1c Effective date of plan <u>01/01/2010</u></td> </tr> </table>	1b Three-digit plan number (PN) ▶	<u>001</u>	1c Effective date of plan <u>01/01/2010</u>	
1b Three-digit plan number (PN) ▶	<u>001</u>				
1c Effective date of plan <u>01/01/2010</u>					
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>RAPID MICRO BIOSYSTEMS, INC.</u> <u>1001 PAWTUCKET BLVD, WEST SUITE 280</u> <u>LOWELL, MA 01854</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>2b Employer Identification Number (EIN) <u>20-8121647</u></td> </tr> <tr> <td>2c Plan Sponsor's telephone number <u>978-349-3644</u></td> </tr> <tr> <td>2d Business code (see instructions) <u>541990</u></td> </tr> </table>	2b Employer Identification Number (EIN) <u>20-8121647</u>	2c Plan Sponsor's telephone number <u>978-349-3644</u>	2d Business code (see instructions) <u>541990</u>	
2b Employer Identification Number (EIN) <u>20-8121647</u>					
2c Plan Sponsor's telephone number <u>978-349-3644</u>					
2d Business code (see instructions) <u>541990</u>					

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/17/2022	SHANNON CALLAHAN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2021)
v. 210624

3a Plan administrator's name and address ☒ Same as Plan Sponsor		3b Administrator's EIN	
		3c Administrator's telephone number	
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name		4b EIN 4d PN	
5 Total number of participants at the beginning of the plan year		5	161
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).			
a(1) Total number of active participants at the beginning of the plan year.....		6a(1)	117
a(2) Total number of active participants at the end of the plan year		6a(2)	173
b Retired or separated participants receiving benefits.....		6b	1
c Other retired or separated participants entitled to future benefits		6c	45
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d	219
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e	0
f Total. Add lines 6d and 6e		6f	219
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)		6g	203
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested		6h	0
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item).....		7	
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2F 2T 2S 2G 2J 2K 2E 3D			
b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:			
9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor		9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)			
a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☐ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary		b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☐ <u>0</u> A (Insurance Information) (4) ☒ C (Service Provider Information) (5) ☐ D (DFE/Participating Plan Information) (6) ☐ G (Financial Transaction Schedules)	

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2021 Form M-1 annual report. If the plan was not required to file the 2021 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2021
		This Form is Open to Public Inspection.

For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021		
A Name of plan RAPID MICRO BIOSYSTEMS, INC. 401(K) PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 RAPID MICRO BIOSYSTEMS, INC.	D Employer Identification Number (EIN) 20-8121647	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☒ Yes ☐ No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
FIDELITY INVESTMENTS INSTITUTIONAL
04-2647786

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☒	Yes ☐ No ☒		Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	MOODY, FAMIGLIETTI & ANDRONICO, LLP	b EIN:	04-3077705
c Position:	AUDIT FIRM		
d Address:	1 HIGHWOOD DRIVE TEWKSBURY, MA 01835	e Telephone:	978-557-5300

Explanation: MOODY, FAMIGLIETTI & ANDRONICO, LLP MERGED WITH BAKER TILLY US, LLP ON DECEMBER 2, 2021

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

a Name:		b EIN:	
c Position:			
d Address:		e Telephone:	

Explanation:

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2021 This Form is Open to Public Inspection
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For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021		
A Name of plan RAPID MICRO BIOSYSTEMS, INC. 401(K) PLAN	B Three-digit plan number (PN) ►	001
C Plan sponsor's name as shown on line 2a of Form 5500 RAPID MICRO BIOSYSTEMS, INC.	D Employer Identification Number (EIN) 20-8121647	

Part I	Asset and Liability Statement
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1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....	1a	0	0
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)	0	0
(2) Participant contributions.....	1b(2)	0	0
(3) Other	1b(3)	0	0
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)	293771	325888
(2) U.S. Government securities	1c(2)	0	0
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)	0	0
(B) All other	1c(3)(B)	0	0
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)	0	0
(B) Common	1c(4)(B)	0	0
(5) Partnership/joint venture interests	1c(5)	0	0
(6) Real estate (other than employer real property)	1c(6)	0	0
(7) Loans (other than to participants)	1c(7)	0	0
(8) Participant loans	1c(8)	72386	87740
(9) Value of interest in common/collective trusts.....	1c(9)	0	0
(10) Value of interest in pooled separate accounts	1c(10)	0	0
(11) Value of interest in master trust investment accounts.....	1c(11)	0	0
(12) Value of interest in 103-12 investment entities	1c(12)	0	0
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)	7139985	9186573
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)	0	0
(15) Other.....	1c(15)	0	0

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities.....	1d(1)	0	0
(2) Employer real property.....	1d(2)	0	0
e Buildings and other property used in plan operation	1e	0	0
f Total assets (add all amounts in lines 1a through 1e)	1f	7506142	9600201

Liabilities

g Benefit claims payable	1g	0	0
h Operating payables	1h	0	0
i Acquisition indebtedness.....	1i	0	0
j Other liabilities.....	1j	0	0
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	7506142	9600201
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	290001	
(B) Participants	2a(1)(B)	1476356	
(C) Others (including rollovers).....	2a(1)(C)	607599	
(2) Noncash contributions.....	2a(2)	0	2373956
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit).....	2b(1)(A)	124	
(B) U.S. Government securities	2b(1)(B)	0	
(C) Corporate debt instruments	2b(1)(C)	0	
(D) Loans (other than to participants)	2b(1)(D)	0	
(E) Participant loans.....	2b(1)(E)	3873	
(F) Other	2b(1)(F)	0	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		3997
(2) Dividends: (A) Preferred stock.....	2b(2)(A)	0	260704
(B) Common stock	2b(2)(B)	0	
(C) Registered investment company shares (e.g. mutual funds).....	2b(2)(C)	260704	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		260704
(3) Rents	2b(3)		0
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	0	0
(B) Aggregate carrying amount (see instructions).....	2b(4)(B)	0	
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)	0	0
(B) Other	2b(5)(B)	0	
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts.....	2b(6)		0
(7) Net investment gain (loss) from pooled separate accounts.....	2b(7)		0
(8) Net investment gain (loss) from master trust investment accounts.....	2b(8)		0
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		0
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		933465
c Other income.....	2c		0
d Total income. Add all income amounts in column (b) and enter total.....	2d		3572122
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers.....	2e(1)	1476704	
(2) To insurance carriers for the provision of benefits.....	2e(2)	0	
(3) Other.....	2e(3)	0	
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		1476704
f Corrective distributions (see instructions).....	2f		0
g Certain deemed distributions of participant loans (see instructions).....	2g		0
h Interest expense.....	2h		0
i Administrative expenses: (1) Professional fees.....	2i(1)	0	
(2) Contract administrator fees.....	2i(2)	0	
(3) Investment advisory and management fees.....	2i(3)	388	
(4) Other.....	2i(4)	971	
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		1359
j Total expenses. Add all expense amounts in column (b) and enter total.....	2j		1478063
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d.....	2k		2094059
l Transfers of assets:			
(1) To this plan.....	2l(1)		0
(2) From this plan.....	2l(2)		0

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☒ Unmodified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☒ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☐ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **BAKER TILLY US, LLP**

(2) EIN: **39-0859910**

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

	Yes	No	Amount
4a	X		103987

	Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)		X	
4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		X	
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		X	
4d		X	
e Was this plan covered by a fidelity bond?	X		1000000
4e	X		1000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		X	
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)		X	
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
4k		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		X	
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.		X	
4n		X	
5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No If "Yes," enter the amount of any plan assets that reverted to the employer this year			
5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)			
5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)	
5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☐ Yes ☐ No ☐ Not determined If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year			

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2021 This Form is Open to Public Inspection.
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For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021

A Name of plan RAPID MICRO BIOSYSTEMS, INC. 401(K) PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 RAPID MICRO BIOSYSTEMS, INC.	D Employer Identification Number (EIN) 20-8121647

Part I	Distributions
---------------	----------------------

All references to distributions relate only to payments of benefits during the plan year.

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....	1
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 04-6568107	
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.	
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year	3

Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)
----------------	---

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)?	☐ Yes	☐ No	☐ N/A
If the plan is a defined benefit plan, go to line 8.			
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.			
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)	6a		
b Enter the amount contributed by the employer to the plan for this plan year	6b		
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)	6c		
If you completed line 6c, skip lines 8 and 9.			
7 Will the minimum funding amount reported on line 6c be met by the funding deadline?	☐ Yes	☐ No	☐ N/A
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change?	☐ Yes	☐ No	☐ N/A

Part III	Amendments
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9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box.....	☐ Increase	☐ Decrease	☐ Both	☐ No
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Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
----------------	---

10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?	☐ Yes	☐ No
11 a Does the ESOP hold any preferred stock?	☐ Yes	☐ No
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)	☐ Yes	☐ No
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?	☐ Yes	☐ No

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Schedule R (Form 5500) 2021
v. 201209

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

- 14** Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:

a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment).....

14a

b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment).....

14b

c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment).....

14c

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year.....

15a

b The corresponding number for the second preceding plan year.....

15b

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year.....

16a

b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....

16b

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment..... ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment..... ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

a Enter the percentage of plan assets held as:

Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%

b Provide the average duration of the combined investment-grade and high-yield debt:

☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

c What duration measure was used to calculate line 19(b)?

☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____

- 20 PBGC missed contribution reporting requirements.** If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.

a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☐ No

b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

☐ Yes.

☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.

☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.

☐ No. Other. Provide explanation _____

Rapid Micro Biosystems, Inc. 401(k) Profit Sharing Plan and Trust

Financial Statements and
Supplementary Information

December 31, 2021 and

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Independent Auditors' Report

To the Plan Administrator of the
Rapid Micro Biosystems, Inc. 401(k) Profit Sharing Plan and Trust

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit of the 2021 Financial Statements

We have performed an audit of the financial statements of Rapid Micro Biosystems, Inc. 401(k) Profit Sharing Plan and Trust (the Plan), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statement of net assets available for plan benefits as of December 31, 2021, and the related statement of changes in net assets available for plan benefits for the year then ended, and the related notes to the financial statements (2021 financial statements).

Management, having determined it is permissible in the circumstances, has elected to have the audit of the Plan's 2021 financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audit need not extend to any statements or information related to assets held for investment of the plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained a certification from a qualified institution as of December 31, 2021 and for the year then ended, stating that the certified investment information, as described in Note 9 to the financial statements, is complete and accurate.

Opinion on the 2021 Financial Statements

In our opinion, based on our audit and on the procedures performed as described in the *Auditors' Responsibilities for the Audit of the 2021 Financial Statements* section—

- the amounts and disclosures in the accompanying 2021 financial statements, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.
- the information in the accompanying 2021 financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Basis for Opinion on the 2021 Financial Statements

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the *Auditors' Responsibilities for the Audit of the 2021 Financial Statements* section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

Responsibilities of Management for the 2021 Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for one year after the date the financial statements are available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments; administering the Plan; and determining that the Plan's transactions that are presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditors' Responsibilities for the Audit of the 2021 Financial Statements

Except as described in the *Scope and Nature of the ERISA Section 103(a)(3)(C) Audit of the 2021 Financial Statements* section of our report, our objectives are to obtain reasonable assurance about whether the 2021 financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

Our audit did not extend to the certified investment information, except for obtaining and reading the certification, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of accounting principles generally accepted in the United States of America.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Other Matter—Supplemental Schedules Required by ERISA

The supplemental schedules of assets (held at end of year) as of December 31, 2021 and delinquent participant contributions for the year ended December 31, 2021 are presented for purposes of additional analysis and are not a required part of the 2021 financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the 2021 financial statements. The information included in the supplemental schedules, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audit of the 2021 financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the 2021 financial statements or to the 2021 financial statements themselves, and other additional procedures in accordance with GAAS. For information included in the supplemental schedules that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedules, we evaluated whether the supplemental schedules, other than the information agreed to or derived from the certified investment information, including their form and content, are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion—

- the form and content of the supplemental schedules, other than the information in the supplemental schedules that agreed to or is derived from the certified investment information, are presented, in all material respects, in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.
- the information in the supplemental schedules related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Auditors' Report on the 2020 Financial Statement

We were engaged to audit the statement of net assets available for plan benefits of the Plan as of December 31, 2020 (the 2020 financial statement). As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA, the Plan Administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information certified by the qualified institution. In our report, dated October 14, 2021, we indicated that (a) because of the significance of the information that we did not audit, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an opinion and, accordingly, we did not express an opinion on the 2020 financial statement, and (b) the form and content of the information included in the 2020 financial statement other than that derived from the certified information were presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

A handwritten signature in black ink that reads "Baker Tilly US, LLP". The signature is written in a cursive, flowing style.

Baker Tilly US, LLP
Tewksbury, Massachusetts
October 17, 2022

Statements of Net Assets Available for Plan Benefits**Rapid Micro Biosystems, Inc. 401(k)
Profit Sharing Plan and Trust**

December 31	2021	2020
Assets		
Investments at Fair Value	\$ 9,512,461	\$ 7,433,756
Receivables:		
Participant Contributions Receivable	-	27,174
Plan Sponsor Contributions Receivable	38,020	5,670
Notes Receivable from Participants	87,740	72,386
Total Receivables	125,760	105,230
Net Assets Available for Plan Benefits	\$ 9,638,221	\$ 7,538,986

**Statement of Changes in Net Assets Available for
Plan Benefits**

**Rapid Micro Biosystems, Inc. 401(k)
Profit Sharing Plan and Trust**

Year Ended December 31

2021

Additions to Net Assets:

Investment Income:

Net Appreciation in Fair Value of Investments \$ 933,478

Interest and Dividends 260,814

Total Investment Income 1,194,292

Interest Income on Notes Receivable from Participants 3,873

Contributions:

Participant Contributions 1,449,182

Rollover Contributions 607,599

Plan Sponsor Contributions 322,351

Total Contributions 2,379,132

Total Additions 3,577,297

Deductions from Net Assets:

Benefits Paid to Participants 1,476,704

Administrative Expenses 1,358

Total Deductions 1,478,062

Net Increase in Net Assets Available for Plan Benefits 2,099,235

Net Assets Available for Plan Benefits, Beginning of Year 7,538,986

Net Assets Available for Plan Benefits, End of Year \$ 9,638,221

1. Description of the Plan:

The following description of Rapid Micro Biosystems, Inc. 401(k) Profit Sharing Plan and Trust (the Plan) provides only general information. Participants should refer to the Plan agreement for more complete information regarding the terms of the Plan.

General: The Plan is a defined contribution plan covering all eligible employees of Rapid Micro Biosystems, Inc. (the Plan Sponsor). The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 (ERISA). The Plan Administrator is responsible for oversight of the Plan. The Rapid Micro Biosystems Investment Committee determines the appropriateness of the Plan's investment offerings and monitors investment performance.

Eligibility: All employees of the Plan Sponsor, except for employees covered by a collective bargaining agreement, leased employees, nonresident aliens, contractors, residents of Puerto Rico, interns, and co-ops, become eligible for participation in the Plan on their date of hire and upon attaining age 21. Eligible employees enrolled in the Plan are referred to as "Participants" in the Plan.

Contributions: The Plan provides for Participant pretax contributions. Participants may contribute up to 75% of their pretax compensation, as defined by the Plan, subject to the Internal Revenue Code (IRC) limitations. Rollover contributions from other qualified plans are allowed, with the approval of the Plan Administrator. The Plan includes a qualified Roth contribution program, whereby Participants may irrevocably elect to treat all or a portion of compensation that would otherwise be eligible to defer as pretax contributions as designated Roth contributions as defined in Section 402A(c)(1) of the IRC. The Plan has an automatic enrollment feature, whereby active Participants who do not revoke their elective contributions will contribute a minimum of 3% of eligible compensation. Participants direct the investment of their contributions into various investment options offered by the Plan.

The Plan provides that Participants who are projected to be age 50 or older by the end of the calendar year and who are making deferral contributions to the Plan may also make a catch-up contribution subject to IRC limitations.

The Plan Sponsor may, at its discretion, make matching contributions to the Plan in any Plan year in an amount determined by the Board of Directors of the Plan Sponsor. During the year ended December 31, 2021, the Plan Sponsor made discretionary matching contributions equal to 33% of Participant contributions up to 6% of their eligible compensation. For the year ended December 31, 2021, discretionary matching contributions amounted to \$322,351.

Participant Accounts: Each Participant's account is credited with the Participant's contributions and allocations of (a) the Plan Sponsor's contributions, (b) Plan earnings or losses, and (c) charged with an allocation of administrative expenses, if any. Allocations are based on Participant earnings or account balances, as defined. The benefit to which a Participant is entitled is the benefit that can be provided from the Participant's vested account.

Vesting: Participants are immediately vested 100% in their contributions and all Plan Sponsor contributions, plus actual earnings thereon.

Notes Receivable from Participants: Participants may borrow from their Plan accounts in amounts attributable to the Participant's vested balance for a maximum term of five years. If the loan is for the purchase of a principal residence, the term of the loan may be extended. A Participant may borrow the lesser of 50% of their eligible balance or \$50,000. The minimum loan amount is \$1,000 and only one loan can be outstanding at any time. The loan balance is secured by the Participant's account and bears fixed interest at rates that are commensurate with local prevailing rates as determined quarterly by the Plan Administrator, which range from 5.25% to 7.50% as of December 31, 2021. Principal and interest is paid ratably through payroll deductions.

1. Description of the Plan (Continued):

Benefits and Withdrawals: The vested benefits are paid to the Participants or their beneficiaries upon the Participants' retirement, death, disability or termination of employment with the Plan Sponsor. In the event of the above, the Participants or their beneficiaries will receive a lump sum distribution if the account balance has a value of less than or equal to \$1,000. Terminated Participants' vested account balances of greater than \$1,000 and up to \$5,000 may be automatically distributed to an Individual Retirement Account (IRA). Participants whose account balances exceed \$5,000 may elect to receive a lump sum or partial withdrawal distribution, or may leave their vested balance in the Plan.

Hardship withdrawals are permitted by the Plan as defined in the IRC. Participants may also withdraw their vested account balance upon attaining age 59 ½.

Forfeited Accounts: Forfeited amounts related to Plan Sponsor contributions are used to reduce future Plan Sponsor contributions or to pay Plan expenses. Forfeited amounts not used to reduce future Plan Sponsor contributions or to pay Plan expenses are reallocated to Participant accounts as additional Plan Sponsor contributions. During the year ended December 31, 2021, the Plan Sponsor did not use forfeitures to reduce its contributions or to pay Plan expenses. As of December 31, 2021 and 2020, the Plan had forfeitures available to offset future Plan Sponsor contributions or to pay Plan expenses in the amount of \$1,654 and \$10, respectively.

Recapture Account: During the year ended December 31, 2021, the Plan entered into a revenue sharing agreement with Fidelity Management Trust Company, whereby the Plan holds assets in an unallocated account that receives revenue sharing payments related to certain investments held by the Plan. During the year ended December 31, 2021, payments to the account totaled \$681, which are included as a reduction of net administrative expenses in the statement of changes in net assets available for plan benefits. Funds in the account are used to pay qualified plan expenses including investment management fees. During the year ended December 31, 2021, the Plan Sponsor did not use the recapture account to pay Plan expenses. During the year ended December 31, 2021, \$675 was reallocated to participant accounts. As of December 31, 2021, unallocated assets amounted to \$6 and are included in Fidelity Government Money Market Fund.

2. Significant Accounting Policies:

Basis of Accounting: The financial statements of the Plan are prepared under the accrual method of accounting.

Investment Valuation and Income Recognition: Investments are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Plan Administrator determines the Plan's valuation policies utilizing information provided by the investment advisers and trustee. See Note 3 for further discussion of fair value measurements.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation in fair value of investments includes the Plan's gains and losses on investments bought and sold as well as held during the year.

Notes Receivable from Participants: Notes receivable from Participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of December 31, 2021 and . If a Participant ceases to make loan repayments and the Plan Administrator deems the Participant loan to be in default, the note receivable balance is reduced and a benefit payment is recorded.

Payment of Benefits: Benefits are recorded when paid.

2. Significant Accounting Policies (Continued):

Expenses: Certain expenses of maintaining the Plan are paid directly by the Plan Sponsor and are excluded from these financial statements. Fees related to the administration of notes receivable from Participants are charged directly to the Participant's account and are included in administrative expenses. Investment-related expenses are included in net appreciation in fair value of investments.

Use of Estimates: The preparation of the financial statements in accordance with accounting principles generally accepted in the United States of America (GAAP) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein, and disclosures of contingent assets and liabilities. Actual results could differ from those estimates.

Subsequent Events: The Plan Administrator has evaluated subsequent events through October 17, 2022, the date the financial statements were available to be issued.

3. Fair Value Measurements:

The framework for measuring fair value provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy are described as follows:

Level 1 - Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2 - Inputs to the valuation methodology include:

- Quoted prices for similar assets or liabilities in active markets;
- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Inputs other than quoted prices that are observable for the asset or liability; and
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 - Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of observable inputs and minimize the use of unobservable inputs.

Mutual funds are valued at the daily closing price as reported by the fund. Mutual funds held by the Plan are registered with the Securities and Exchange Commission. These funds are required to publish their daily net asset value (NAV) and to transact at that price. The mutual funds held by the Plan are deemed to be actively traded. There have been no changes in the methodologies used for the years ended December 31, 2021 and .

The preceding methods described may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

3. Fair Value Measurements (Continued):

The following table sets forth, by level within the fair value hierarchy, the Plan's fair value measurements as of December 31, 2021 and 2020:

		Assets at Fair Value as of December 31, 2021			
		Total	Level 1	Level 2	Level 3
Investments:					
Mutual Funds		\$ 9,512,461	\$ 9,512,461	\$ -	\$ -
Total Investments		\$ 9,512,461	\$ 9,512,461	\$ -	\$ -

		Assets at Fair Value as of December 31, 2020			
		Total	Level 1	Level 2	Level 3
Investments:					
Mutual Funds		\$ 7,433,756	\$ 7,433,756	\$ -	\$ -
Total Investments		\$ 7,433,756	\$ 7,433,756	\$ -	\$ -

4. Party-in-Interest Transactions:

Certain Plan investments are managed by Fidelity Management Trust Company, trustee of the Plan, and therefore, these transactions qualify as party-in-interest transactions. Fees incurred by the Plan for the investment management services are included in net appreciation in fair value of investments, as they are paid through revenue sharing, rather than direct payment, in the accompanying statement of changes in net assets available for plan benefits for the year ended December 31, 2021. During the year ended December 31, 2021, the Plan made direct payments to Fidelity Investments Institutional, the recordkeeper, in the amount of \$1,358, which were not covered by revenue sharing. The Plan Sponsor pays directly any other fees related to the Plan's operations.

5. Untimely Remittance:

During the year ended December 31, 2020, the Plan Sponsor did not remit certain Participant contributions to the Plan in a timely manner, as defined by ERISA. The contributions are considered non-exempt party-in-interest transactions, which may result in an imposition of a 15% excise tax on the amount of the transactions. The Plan Sponsor has computed the lost earnings on untimely contributions and determined they are immaterial to the Plan's financial statements.

6. Tax Status:

The Plan has adopted the volume submitter profit sharing plan of Fidelity Management & Research Co. The volume submitter profit sharing plan sponsor received a favorable opinion letter dated March 31, 2014, in which the Internal Revenue Service stated that the form of the volume submitter profit sharing plan was in compliance with the applicable requirements of the IRC. The volume submitter profit sharing plan has been amended since receiving the opinion letter; however, the Plan Administrator believes that the Plan and the related trust are currently being operated in compliance with the applicable provisions of the IRC, and that the related trust is therefore tax-exempt.

GAAP requires plan management to evaluate tax positions taken by the Plan and to recognize a tax liability (or asset) if the Plan Sponsor has taken an uncertain position that more likely than not would not be sustained upon examination by the Internal Revenue Service. The Plan Administrator believes it has no uncertain tax positions as of December 31, 2021 and 2020 and for the year ended December 31, 2021.

7. Plan Termination:

Although it has not expressed any intent to do so, the Plan Sponsor has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, Participants would become 100% vested in the Plan Sponsor contributions.

8. Risks and Uncertainties:

The Participants invest in various investment securities. Investment securities are exposed to various risks, such as interest rate, market, and credit risks. Market risks include global events which could impact the value of investment securities, such as a pandemic or international conflict. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and such changes could materially affect Participants' account balances and the amounts reported in the accompanying statements of net assets available for plan benefits.

As of December 31, 2021 and , the Plan had investments of \$3,068,313 and \$1,746,487, respectively, that were concentrated in two and one funds, respectively.

9. Information Certified by the Trustee:

Certain information related to investments and notes receivable from participants disclosed in the accompanying financial statements and ERISA-required supplemental schedules of assets (held at end of year) as of December 31, 2021 and delinquent participant contributions for the year ended December 31, 2021, including investments and notes receivable from participants held at December 31, 2021 and , and net appreciation in fair value of investments, interest and dividends, and interest income on notes receivable from Participants for the year ended December 31, 2021, was obtained by management and agreed to or derived from information certified as complete and accurate by Fidelity Management Trust Company, trustee of the Plan.

10. Subsequent Events:

Plan Amendments: Effective January 1, 2022, the Plan was amended to change the vesting for Plan Sponsor matching contributions from 100% vested to a two year graduated vesting schedule and to add a separate vesting schedule of 100% for Plan Sponsor matching contributions contributed to Participants hired prior to January 1, 2022.

11. Reconciliation of Financial Statements to Form 5500:

The following is a reconciliation of net assets available for plan benefits per the financial statements to the Form 5500 as of December 31, 2021 and 2020:

	2021	2020
Net Assets Available for Plan Benefits, Per Financial Statements	\$ 9,638,221	\$ 7,538,986
Participant Contributions Receivable	-	(27,174)
Plan Sponsor Contributions Receivable	(38,020)	(5,670)
	<u>\$ 9,600,201</u>	<u>\$ 7,506,142</u>
Net Assets Available for Plan Benefits, Per Form 5500		

The following is a reconciliation of the net increase in net assets available for plan benefits per the financial statements to Form 5500 for the year ended December 31, 2021:

Net Increase in Net Assets Available for Plan Benefits, Per Financial Statements	\$ 2,099,235
Add: 2020 Participant Contributions Receivable	27,174
Less: 2021 Plan Sponsor Contributions Receivable	(38,020)
Add: 2020 Plan Sponsor Contributions Receivable	<u>5,670</u>
Net Increase in Net Assets Available for Plan Benefits, Per Form 5500	<u>\$ 2,094,059</u>

**Schedule H, Line 4i Schedule of Assets
(Held at End of Year)**

**Rapid Micro Biosystems, Inc. 401(k)
Profit Sharing Plan and Trust
EIN#20-8121647/ Plan #001**

As of December 31, 2021

(a)	(b) Identity of Issue, Borrower, Lessor or Similar Party	(c) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(d) Cost	(e) Current Value
		<u>Mutual Funds:</u>		
*	Fidelity	Fidelity 500 Index Fund	**	\$ 2,060,658
*	Fidelity	Fidelity Freedom Index 2050 Fund Institutional Premium Class	**	1,007,655
	Vanguard	Vanguard Balanced Index Fund Admiral	**	853,436
*	Fidelity	Fidelity Freedom Index 2035 Fund Institutional Premium Class	**	659,424
*	Fidelity	Fidelity Small Cap Index Fund	**	610,547
*	Fidelity	Fidelity Freedom Index 2030 Fund Institutional Premium Class	**	584,244
*	Fidelity	Fidelity Freedom Index 2045 Fund Institutional Premium Class	**	471,555
*	Fidelity	Fidelity Freedom Index 2040 Fund Institutional Premium Class	**	423,619
	JP Morgan	JPMorgan Large Cap Growth Fund Class R6	**	404,200
*	Fidelity	Fidelity Freedom Index 2025 Fund Institutional Premium Class	**	377,047
*	Fidelity	Fidelity Government Money Market Fund	**	325,882
*	Fidelity	Fidelity Freedom Index 2020 Fund Institutional Premium Class	**	278,764
*	Fidelity	Fidelity International Index Fund	**	266,152
	Lord Abbett	Lord Abbett Total Return Fund Class R6	**	252,246
*	Fidelity	Fidelity Mid Cap Index Fund	**	222,890
	American Funds	American Funds EuroPacific Growth Fund Class R-6	**	141,656
	MFS	MFS Value Fund Class R6	**	132,651
	American Funds	American Funds New World Fund Class R-6	**	129,856
*	Fidelity	Fidelity Inflation-Protected Bond Index Fund	**	63,930
*	Fidelity	Fidelity Freedom Index 2055 Fund Institutional Premium Class	**	54,017
*	Fidelity	Fidelity Freedom Index 2060 Fund Institutional Premium Class	**	48,849
	AB	AB High Income Fund Class Z	**	48,524
	Invesco	Invesco Corporate Bond Fund Class R6	**	46,565
*	Fidelity	Fidelity Freedom Index 2015 Fund Institutional Premium Class	**	19,233
	PIMCO	PIMCO International Bond Fund (U.S. Dollar-Hedged)	**	18,652
*	Fidelity	Fidelity Freedom Index 2065 Fund Institutional Premium Class	**	7,647
*	Fidelity	Fidelity Real Estate Index Fund	**	2,556
*	Fidelity	Fidelity Government Money Market Fund	**	6
		Total Mutual Funds		<u>9,512,461</u>
*	Participant Loans	Notes Receivable from Participants, with interest rates ranging from 5.25% to 7.50%, maturing through December 2026	-0-	<u>87,740</u>
		Total		<u>\$ 9,600,201</u>

(*) Represents a party-in-interest to the Plan.

(**) Cost information may be omitted for the participant-directed transactions under an individual account plan.

**Schedule H, Line 4a Schedule of Delinquent
Participant Contributions**

**Rapid Micro Biosystems, Inc. 401(k)
Profit Sharing Plan and Trust
EIN#20-8121647/ Plan #001**

Delinquent participant contributions are summarized as follows:

Participant Contributions Transferred Late to Plan		Total that Constitutes Nonexempt Prohibited Transactions			
For the Year Ended December 31	Check here if late participant loan repayments are included:	Contributions Not Corrected	Contributions Corrected Outside VFCP	Contributions Pending Correction in VFCP	Total Fully Corrected Under VFCP and PTE
2020	☒	\$ 103,987	\$ -	\$ -	\$ -