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): August 9, 2018

resTORbio, INC.
(Exact name of Registrant as Specified in Its Charter)

Delaware	**001-38359**	**81-3305277**
(State or Other Jurisdiction of Incorporation)	**(Commission File Number)**	**(IRS Employer Identification No.)**

500 Boylston Street, 12th Floor
Boston, MA 02116
(Address of principal executive offices, including zip code)

(857) 315-5521
(Registrant's telephone number, including area code)

Not Applicable
(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instructions A.2. below):

☐ 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))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company ☒

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

Item 2.02 Results of Operations and Financial Condition.

On August 9, 2018, resTORbio, Inc. announced its financial results for the quarter ended June 30, 2018. A copy of the press release is being furnished as Exhibit 99.1 to this Report on Form 8-K.

The information in this Report on Form 8-K and Exhibit 99.1 attached hereto is intended to be furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act, except as expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Description
99.1	Press release issued by resTORbio, Inc. on August 9, 2018, furnished herewith.

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 hereunto duly authorized.

Date: August 9, 2018

resTORbio, INC.

By: /s/ Chen Schor
Chen Schor
President and Chief Executive Officer

Exhibit 99.1

resTORbio Reports Second Quarter 2018 Financial Results

-- Phase 2b results identify dose and patient population for pivotal program with RTB101 --

-- Initiation of pivotal program with RTB101 expected in the first half of 2019 --

BOSTON, Massachusetts, August 9, 2018 – resTORbio, Inc. (NASDAQ:TORC), a clinical-stage biopharmaceutical company focused on helping people live healthier longer through the development and commercialization of novel therapeutics for the treatment of aging-related diseases, today provided a corporate update and reported financial results for the second quarter ended June 30, 2018.

"We have made great strides in advancing RTB101, our TORC1 inhibitor, for enhancing immune function and reducing the incidence of respiratory tract infections (RTIs)," said Chen Schor, President and CEO of resTORbio. "In addition to publishing the results from our Phase 2a trial in *Science Translational Medicine*, we announced positive topline results from our Phase 2b trial. We successfully identified the dose and patient populations for our planned pivotal program, and we expect to report additional data from this trial in the second half of this year. We look forward to working closely with the U.S. Food and Drug Administration (FDA) on our pivotal program for RTB101 in reducing the incidence of RTIs."

Recent Highlights and Outlook

Positive Topline Results from Phase 2b Trial: In July 2018, resTORbio reported results from its exploratory dose-finding Phase 2b clinical trial examining the safety and efficacy of RTB101 in reducing the incidence of RTIs. The two-part, randomized, double-blinded, placebo-controlled trial enrolled a diverse population of 652 elderly patients at increased risk of morbidity and mortality associated with RTIs. RTB101 10 mg once daily demonstrated a statistically significant and clinically meaningful reduction in the percentage of patients with one or more laboratory-confirmed RTIs during the 16-week treatment period compared to placebo ($p=0.026$). Prespecified analyses of patient subgroups enrolled in the study showed that RTB101 10 mg once daily also had a profound reduction of more than 65% in the incidence of laboratory-confirmed RTIs in patients with asthma and patients 85 years and older, compared to placebo ($p=0.0002$ and $p=0.007$ respectively). All doses of RTB101 were observed to be well-tolerated. The study successfully identified the dose and patient populations for pivotal trials, and the Company plans to hold an end-of-Phase 2 meeting with the FDA in the fourth quarter of 2018.

Analyses of Phase 2b Study to Inform Trials in Additional Aging-Related Diseases: The Company intends to leverage learnings from its Phase 2b clinical trial, together with preclinical data, to further develop RTB101 for the treatment of additional aging-related indications where TORC1 inhibition may have therapeutic benefit. Additional data from the Phase 2b clinical trial on the incidence of urinary tract infections and a potential efficacy signal for heart failure based on echocardiograms are expected in the second half of 2018.

Initiation of Phase 2 Trial in Parkinson's Disease Expected by the First Quarter 2019: Selective and broad inhibition of TORC1 has been shown to extend lifespan and ameliorate several aging-related diseases in preclinical studies, including neurodegenerative diseases. Neurodegenerative diseases, including Parkinson's disease, are associated with accumulation of aggregated proteins that may contribute to neuronal death. Inhibition of TORC1 with RTB101 in combination with rapalogs, such as everolimus or sirolimus, induces autophagy, the process in which a cell breaks down and recycles damaged aggregated proteins and cellular components. Therefore, induction of autophagy with RTB101 in combination with rapalogs may have potential therapeutic benefit for patients with Parkinson's disease. The Company plans to initiate a proof-of-concept trial in patients with Parkinson's disease by the first quarter 2019.

Positive Phase 2a Results Published in *Science Translational Medicine*: Data from resTORbio's Phase 2a clinical trial of RTB101 alone and in combination with everolimus were published in the journal *Science Translational Medicine* in July 2018 demonstrating that TORC1 inhibition improved immune function and decreased incidence of all infections, including RTIs, in people aged 65 years and older. The study was a randomized, double-blinded, placebo-controlled Phase 2a study of 264 elderly volunteers at least 65 years of age.

Corporate Updates

- In June 2018, resTORbio announced the appointment of Kerry Russell, M.D., Ph.D., as Vice President of Clinical Development.
- In May 2018, resTORbio hosted a key opinion leader symposium on the potential of TORC1 inhibition to treat multiple aging-related diseases, as well as the unmet medical need for reducing the incidence of respiratory tract infections.

Second Quarter 2018 Financial Results

- **R&D Expenses**: R&D expenses were $11.8 million for the three months ended June 30, 2018 compared to $3.4 million for the three months ended June 30, 2017. The increase was primarily attributable to the Company's Phase 2b study.
- **G&A Expenses**: General and administrative expenses were $2.3 million for the three months ended June 30, 2018 compared to $0.6 million for the three months ended June 30, 2017. The increase was primarily attributable to an increase in headcount as well as increased operating costs as a result of the Company's transition from a private company to a public company, including legal, accounting, insurance and investor relations expenses.
- **Net Loss**: Net loss was $13.6 million, or $0.48 per share, for the three months ended June 30, 2018 compared to a net loss of $4.1 million, or $0.94 per share, for the three months ended June 30, 2017.
- **Cash Position**: Cash, cash equivalents and marketable securities were $125.9 million as of June 30, 2018. The Company expects that its cash, cash equivalents and marketable securities as of June 30, 2018 will be sufficient to fund its operating expenses through 2020.

About resTORbio
resTORbio, Inc. is a clinical stage biopharmaceutical company targeting TORC1 and other biological pathways that regulate aging to develop innovative medicines with the potential to extend healthy lifespan. resTORbio's lead program is selectively targeting TORC1, an evolutionarily conserved pathway that contributes to the decline in function of multiple organ systems, including the immune, cardiovascular and central nervous systems.

Forward Looking Statements:
This press release contains forward-looking statements that are made pursuant to the safe harbor provisions of the federal securities laws. Investors are cautioned that statements in this press release which are not strictly historical statements, including, without limitation, express or implied statements or guidance regarding our plans to develop and commercialize RTB101 alone or in combination with everolimus, including the therapeutic potential and clinical benefits thereof, and the potential patient populations that may be addressed by our product candidates, our ongoing and future clinical trials for RTB101 alone or in combination with everolimus, including the timing of the initiation and anticipated results of these trials, the intended regulatory path for our product candidates and interactions with regulatory authorities, and our cash position and expected runway, constitute forward-looking statements identified by words like "believe," "expect," "may," "will," "should," "seek," "anticipate," or "could" and similar expressions. Such forward-looking statements are subject to a number of risks and uncertainties that could cause actual results to differ materially from those

anticipated, including, without limitation, risks associated with: the delay of any planned clinical trials and/or development of RTB101, either alone or in combination with everolimus; our ability to successfully demonstrate the efficacy and safety of our lead product candidate; the clinical results for our lead product candidate which may not support further development of additional indications; and obtaining, maintaining and protecting our intellectual property; as well as those risks more fully discussed in the section entitled "Risk Factors" in the Annual Report on Form 10-K filed by resTORbio, Inc. with the Securities and Exchange Commission, as well as discussions of potential risks, uncertainties, and other important factors in our subsequent filings with the Securities and Exchange Commission. In addition, any forward-looking statements represent our views only as of today and should not be relied upon as representing its views as of any subsequent date. resTORbio explicitly disclaims any obligation to update any forward-looking statements.

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RESTORBIO, INC.
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(unaudited)
(in thousands, except per share data)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	**2017**	**2018**	**2017**
Operating expenses:				
Research and development	$ 11,845	$ 3,420	$ 19,951	$ 6,714
General and administrative	2,268	637	4,362	700
Total operating expenses	14,113	4,057	24,313	7,414
Loss from operations	(14,113)	(4,057)	(24,313)	(7,414)
Other income, net	522	—	863	—
Net loss	$ (13,591)	$ (4,057)	$ (23,450)	$ (7,414)
Net loss per share —basic and diluted	$ (0.48)	$ (0.94)	$ (0.95)	$ (2.09)
Weighted-average number of common shares used in net loss per share —basic and diluted	28,046	4,302	24,803	3,550

RESTORBIO, INC.
CONDENSED CONSOLIDATED BALANCE SHEETS
(unaudited)
(in thousands)

	June 30, 2018	December 31, 2017
Assets		
Current assets:		
Cash, cash equivalents and marketable securities	$ 125,923	$ 53,349
Prepaid expenses and other current assets	2,449	876
Deferred offering costs	—	929
Total current assets	128,372	55,154
Restricted cash	84	—
Property and equipment, net	324	39
Total assets	$ 128,780	$ 55,193
Liabilities, redeemable convertible preferred stock and stockholders' equity (deficit)		
Current liabilities:		
Accounts payable	$ 4,523	$ 1,515
Accrued liabilities	6,568	3,987
Funding advance	500	—
Total current liabilities	11,591	5,502
Other liabilities	25	—
Total liabilities	11,616	5,502
Redeemable convertible preferred stock	—	81,620
Stockholders' equity (deficit):		
Common stock	3	1
Additional paid-in capital	174,420	1,849
Accumulated deficit	(57,229)	(33,779)
Accumulated other comprehensive loss	(30)	—
Total stockholders' equity (deficit)	117,164	(31,929)
Total liabilities, redeemable convertible preferred stock and stockholders' equity (deficit)	$ 128,780	$ 55,193