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**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): October 6, 2020

**PhaseBio Pharmaceuticals, Inc.**  
(Exact name of Registrant as Specified in Its Charter)

Delaware  
(State or Other Jurisdiction of  
Incorporation)

001-38697  
(Commission  
File Number)

03-0375697  
(IRS Employer  
Identification No.)

1 Great Valley Parkway, Suite 30  
Malvern, Pennsylvania  
(Address of Principal Executive Offices)

19355  
(Zip Code)

(610) 981-6500  
(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))

Securities registered pursuant to Section 12(b) of the Act.

Title of each class	Trading Symbol(s)	Name of exchange on which registered
Common Stock	PHAS	The Nasdaq Stock Market LLC

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  x

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.  x

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**Item 8.01 Other Events.**

On October 6, 2020, PhaseBio Pharmaceuticals, Inc. (the "Company") issued a press release entitled "PhaseBio Doses First Patients in Canada as Part of the REVERSE-IT Global Phase 3 Trial of Bentracimab for Reversal of the Antiplatelet Effects of Ticagrelor." The full text of the press release is attached as Exhibit 99.1 to this Current Report on Form 8-K.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

Exhibit No.	Description
<a href="#">99.1</a>	<a href="#">Press Release, dated October 6, 2020.</a>

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**PhaseBio Pharmaceuticals, Inc.**

Dated: October 6, 2020

By: /s/ John P. Sharp  
John P. Sharp  
*Chief Financial Officer*



## **PhaseBio Doses First Patients in Canada as Part of the REVERSE-IT Global Phase 3 Trial of Bentracimab for Reversal of the Antiplatelet Effects of Ticagrelor**

*Cardiovascular disease remains a leading cause of mortality in both Canada and globally; the lack of reversal agents for patients taking antiplatelet therapies who require urgent surgery or experience a major bleeding event remains a critical unmet need*

*Bentracimab (PB2452) has demonstrated immediate and sustained reversal of the antiplatelet effects of ticagrelor in both Phase 1 and Phase 2 clinical trials*

*Ongoing global Phase 3 trial of bentracimab has been named REVERSE-IT (Rapid and SustainEd ReVERSAl of TicagrElor - Intervention Trial)*

**Malvern, PA, and San Diego, CA - October 6, 2020** - PhaseBio Pharmaceuticals, Inc. (Nasdaq: PHAS), a clinical-stage biopharmaceutical company focused on the development and commercialization of novel therapies for cardiopulmonary diseases, today announced that it has expanded its pivotal Phase 3 REVERSE-IT trial for its lead product candidate bentracimab (formerly PB2452) into Canada, where the first patients outside of the United States have now been enrolled and dosed. Bentracimab is a novel, human monoclonal antibody fragment that in earlier trials has shown immediate and sustained reversal of the antiplatelet effects of Brilinta® (ticagrelor).

“Brilinta is the best-in-class antiplatelet drug for patients with acute coronary syndrome (ACS), recent stent placement, or a history of myocardial infarction. Like all antiplatelet therapies, it does create some challenges for patients with serious bleeding events or who need urgent surgery,” said John Lee, M.D., Ph.D., Chief Medical Officer of PhaseBio. “In these situations, doctors need an intervention that immediately and sustainably reverses the antiplatelet activity of ticagrelor; this is something that currently does not exist. Bentracimab has the potential to be an important solution as it provides immediate and sustained restoration of platelet function, with potential utility across a broad spectrum of bleeding events, urgent surgeries and invasive procedures.”

“With cardiovascular disease representing a leading cause of death in Canada, as in the rest of the world, we expect to continue to see widespread utilization of P2Y<sub>12</sub> inhibitors like ticagrelor to help prevent adverse cardiovascular events in vulnerable patients. While ticagrelor is highly efficacious it poses increased risk of serious bleeding, like other P2Y<sub>12</sub> inhibitors. The promise of a potential reversal agent addresses a significant unmet clinical need for a large number of patients at risk of severe bleeding or those who may suffer a serious bleeding episode while on ticagrelor,” said Subodh Verma, M.D., Ph.D., a cardiac surgeon and Professor at the University of Toronto, and a member of the REVERSE-IT steering committee and Canadian national lead investigator. “I am delighted that about 20 sites in Canada will participate in this important and potentially practice-changing clinical trial,” said Professor Verma.

“We have seen in prior trials that bentracimab provided immediate restoration of platelet function and believe that it can help ticagrelor patients receive the urgent care they need in cases of acute bleeding or in need of an urgent procedure”, said Dr. C. David Mazer, a Professor of Anesthesiology at the University

of Toronto and Canadian investigator on REVERSE-IT. Dr. Mazer continued, “We are delighted to be the first Canadian REVERSE-IT site to participate in the development of this critical therapy for patients in need.”

Jonathan Mow, Chief Executive Officer of PhaseBio added: “With a generic version of Brilinta under regulatory review in Canada and a best-in-class efficacy profile relative to other P2Y<sub>12</sub> inhibitors, we anticipate significant growth in market share for ticagrelor in Canada and a growing need for a novel reversal agent like bentracimab. We view the expansion of REVERSE-IT enrollment into Canada as an important milestone for the global bentracimab program.”

Bentracimab has been studied in Phase 1 and Phase 2 clinical trials and has demonstrated the potential to bring life-saving therapeutic benefit through immediate and sustained reversal of the antiplatelet activity of ticagrelor, potentially mitigating concerns regarding bleeding risks associated with the use of antiplatelet drugs. Additionally, in a translational study, bentracimab achieved equivalent reversal of branded ticagrelor and multiple ticagrelor generics. AstraZeneca reported net sales of \$845 million for Brilinta in the first half of 2020, which represents a 15% increase over the prior year’s global total and an increase of 34% in emerging markets.

# REVERSE-IT

Rapid and SustainEd ReVERSal of TicagrElor – Intervention Trial

The Phase 3 clinical study is called REVERSE-IT (Rapid and SustainEd ReVERSAl of TicagrElor – Intervention Trial). REVERSE-IT is a multi-center, open-label, prospective single-arm trial designed to study reversal of the antiplatelet effects of ticagrelor with bentracimab in patients who present with uncontrolled major or life-threatening bleeding or who require urgent surgery or invasive procedure. Approximately 200 patients are being targeted to be enrolled from major health centers worldwide. Patients with reported use of ticagrelor within the prior 3 days who require urgent ticagrelor reversal will be eligible for enrollment.

More information about the REVERSE-IT Phase 3 trial is available at [ClinicalTrials.gov](https://clinicaltrials.gov), using the identifier NCT04286438.

## **About Bentracimab (PB2452)**

Bentracimab is a novel, recombinant, human monoclonal antibody antigen-binding fragment designed to reverse the antiplatelet activity of ticagrelor in major bleeding and urgent surgery situations. In a Phase 1 clinical trial, bentracimab demonstrated the potential to bring life-saving therapeutic benefit through immediate and sustained reversal of ticagrelor’s antiplatelet activity, mitigating concerns regarding bleeding risks associated with the use of antiplatelet drugs. The Phase 1 clinical trial of bentracimab in healthy volunteers was published in the *New England Journal of Medicine* in March 2019. In April 2019, bentracimab received Breakthrough Therapy Designation from the FDA. Breakthrough Therapy Designation may be granted by the FDA when preliminary clinical evidence indicates that the drug may demonstrate substantial improvement over existing therapy. In September 2019, PhaseBio completed a Phase 2a trial in which bentracimab was investigated in older and elderly subjects on dual antiplatelet

therapy of ticagrelor and low-dose aspirin. Additionally, the Phase 2a trial investigated a bentracimab regimen for the reversal of suprathreshold doses of ticagrelor in healthy younger subjects. In both arms of the trial, bentracimab achieved immediate and sustained reversal of the antiplatelet effects of ticagrelor and was generally well-tolerated, with only minor adverse events reported. These results are consistent with the results observed in healthy younger subjects treated with ticagrelor in the previously published Phase 1 trial. PhaseBio initiated the REVERSE-IT trial, a pivotal Phase 3 clinical trial of bentracimab, in March 2020 to support a Biologics License Application for bentracimab in both major bleeding and urgent surgery indications. There are currently no approved reversal agents for ticagrelor or any other antiplatelet drugs.

## **About PhaseBio Pharmaceuticals**

PhaseBio Pharmaceuticals, Inc. is a clinical-stage biopharmaceutical company focused on the development and commercialization of novel therapies for cardiovascular and cardiopulmonary diseases. The company's pipeline includes: bentracimab, a novel reversal agent for the antiplatelet therapy ticagrelor; PB1046, a once-weekly vasoactive intestinal peptide receptor agonist for the treatment of pulmonary arterial hypertension and hospitalized COVID-19 patients at high risk for rapid clinical deterioration and acute respiratory distress syndrome; and PB6440, an oral agent for the treatment of resistant hypertension. PhaseBio's proprietary elastin-like polypeptide technology platform enables the development of therapies with potential for less-frequent dosing and improved pharmacokinetics, including PB1046, and drives both internal and partnership drug-development opportunities.

PhaseBio is located in Malvern, PA, and San Diego, CA. For more information, please visit [www.phasebio.com](http://www.phasebio.com).

## **Forward-Looking Statements**

*This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "anticipates," "believes," "expects," "intends," "projects," and "future" or similar expressions are intended to identify forward-looking statements.*

*Forward-looking statements include statements concerning or implying the conduct or timing of our clinical trials, including REVERSE-IT, and our research, development and regulatory plans for our product candidates, including bentracimab (PB2452), the potential for these product candidates to receive regulatory approval from the FDA or equivalent foreign regulatory agencies, and whether, if approved, these product candidates will be successfully distributed and marketed. Forward-looking statements are based on management's current expectations and are subject to various risks and uncertainties that could cause actual results to differ materially and adversely from those expressed or implied by such forward-looking statements. Accordingly, these forward-looking statements do not constitute guarantees of future performance, and you are cautioned not to place undue reliance on these forward-looking statements.*

*Risks regarding our business are described in detail in our Securities and Exchange Commission filings, including in our Quarterly Report on Form 10-Q for the quarter ended June 30, 2020. These forward-looking statements speak only as of the date hereof, and PhaseBio Pharmaceuticals, Inc. disclaims any obligation to update these statements except as may be required by law.*

**Investor Contact:**

John Sharp  
PhaseBio Pharmaceuticals, Inc.  
Chief Financial Officer  
(610) 981-6506  
[john.sharp@phasebio.com](mailto:john.sharp@phasebio.com)

**Media Contact:**

Will Zasadny  
Canale Communications  
(619) 961-8848  
[will@canalecomm.com](mailto:will@canalecomm.com)