

Mirati Therapeutics, Inc.
Form SC 13G/A
October 03, 2017

SECURITIES
AND
EXCHANGE
COMMISSION
Washington,
D.C. 20549

SCHEDULE
13G/A

Under the
Securities
Exchange Act of
1934
(Amendment
No. 2)*

Mirati
Therapeutics,
Inc.
(Name of
Issuer)

Common Stock,
\$0.001 par value
(Title of Class
of Securities)

60468T105
(CUSIP
Number)

September 30,
2017
(Date of Event
Which Requires
Filing of This
Statement)

Check the
appropriate box
to designate the
rule pursuant to
which this
Schedule is

filed:

þ Rule 13d-1(b)

ˆˆ Rule 13d-1(c)

ˆˆ Rule 13d-1(d)

(Page 1 of 7

Pages)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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1	NAME OF REPORTING PERSON								
2	venBio Select Advisor LLC CHECK THE APPROPRIATE BOX IF A MEMBER (b) p OF A GROUP								
3	SEC USE ONLY CITIZENSHIP OR PLACE OF								
4	ORGANIZATION								
Delaware									
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	<table border="0"> <tr> <td style="vertical-align: top; padding-right: 20px;">5</td> <td>SOLE VOTING POWER 3,748,101 (including 37,500 shares of Common Stock issuable upon exercise of Warrants)</td> </tr> <tr> <td style="vertical-align: top; padding-right: 20px;">6</td> <td>SHARED VOTING POWER 0 SOLE DISPOSITIVE POWER</td> </tr> <tr> <td style="vertical-align: top; padding-right: 20px;">7</td> <td>3,748,101 (including 37,500 shares of Common Stock issuable upon exercise of Warrants)</td> </tr> <tr> <td style="vertical-align: top; padding-right: 20px;">8</td> <td>SHARED DISPOSITIVE</td> </tr> </table>	5	SOLE VOTING POWER 3,748,101 (including 37,500 shares of Common Stock issuable upon exercise of Warrants)	6	SHARED VOTING POWER 0 SOLE DISPOSITIVE POWER	7	3,748,101 (including 37,500 shares of Common Stock issuable upon exercise of Warrants)	8	SHARED DISPOSITIVE
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7	3,748,101 (including 37,500 shares of Common Stock issuable upon exercise of Warrants)								
8	SHARED DISPOSITIVE								

POWER

0

AGGREGATE
AMOUNT
BENEFICIALLY
OWNED BY EACH
REPORTING
PERSON

9

3,748,101 (including
37,500 shares of
Common Stock
issuable upon exercise
of Warrants)

CHECK BOX
IF THE

10

AGGREGATE
AMOUNT IN ..
ROW (9)

EXCLUDES
CERTAIN
SHARES
PERCENT OF
CLASS

11

REPRESENTED BY
AMOUNT IN ROW
(9)

14.99%

12

TYPE OF
REPORTING
PERSON

OO, IA

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1	NAME OF REPORTING PERSON
2	Behzad Aghazadeh CHECK THE APPROPRIATE BOX IF A MEMBER (b) 1 OF A GROUP
3	SEC USE ONLY CITIZENSHIP OR PLACE OF
4	ORGANIZATION
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	<div>United States</div> <div>5 SOLE VOTING POWER 3,748,101 (including 37,500 shares of Common Stock issuable upon exercise of Warrants)</div> <div>6 SHARED VOTING POWER</div> <div>0 SOLE DISPOSITIVE POWER</div> <div>7 3,748,101 (including 37,500 shares of Common Stock issuable upon exercise of Warrants)</div> <div>8 SHARED DISPOSITIVE POWER</div>

	0
	AGGREGATE
	AMOUNT
	BENEFICIALLY
	OWNED BY EACH
	REPORTING
9	PERSON
	3,748,101 (including
	37,500 shares of
	Common Stock
	issuable upon exercise
	of Warrants)
	CHECK BOX
	IF THE
	AGGREGATE
10	AMOUNT IN ..
	ROW (9)
	EXCLUDES
	CERTAIN
	SHARES
	PERCENT OF
	CLASS
11	REPRESENTED BY
	AMOUNT IN ROW
	(9)
	14.99%
	TYPE OF
12	REPORTING
	PERSON
	IN

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Item 1(a). NAME OF ISSUER

Mirati Therapeutics, Inc. (the "Issuer")

Item 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

9393 Towne Centre Drive, Suite 200, San Diego, California 92121

Item 2(a). NAME OF PERSON FILING

This statement is filed by: (i) venBio Select Advisor LLC, a Delaware limited liability company ("venBio"), which provides investment advisory and management services and has acquired the securities of the Issuer solely for investment purposes on behalf of venBio Select Fund LLC, a Delaware limited liability company, and certain managed accounts and (ii) Behzad Aghazadeh ("Dr. Aghazadeh," and together with venBio, the "Reporting Persons"), who serves as the portfolio manager and controlling person of venBio.

The filing of this statement should not be construed as an admission that any Reporting Person is, for purposes of Section 13 of the Act, the beneficial owner of the securities reported herein.

Item 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE

The address of the business office of each of the Reporting Persons is 120 West 45th Street, Suite 2802, New York, NY 10036.

Item 2(c). CITIZENSHIP

venBio is a Delaware limited liability company. Dr. Aghazadeh is a United States citizen.

Item 2(d). TITLE OF CLASS OF SECURITIES

Common Stock, \$0.001 par value (the "Common Stock")

Item 2(e). CUSIP NUMBER

60468T105

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Item 3. IF THIS STATEMENT IS FILED PURSUANT TO Rules 13d-1(b), OR 13d-2(b) OR (c), CHECK WHETHER THE PERSON FILING IS A:

- (a) ☐ Broker or dealer registered under Section 15 of the Act;
- (b) ☐ Bank as defined in Section 3(a)(6) of the Act;
- (c) ☐ Insurance company as defined in Section 3(a)(19) of the Act;
- (d) ☐ Investment company registered under Section 8 of the Investment Company Act of 1940;
- (e) ☒ An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f) ☐ An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- (g) ☒ A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
- (h) ☐ A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
- (i) ☐ A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) ☐ A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J);
- (k) ☐ Group, in accordance with Rule 13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution: _____

Item 4. OWNERSHIP

The information required by Items 4(a) - (c) is set forth in Rows 5 - 11 of the cover page and is incorporated herein by reference.

The percentage set forth in Row 11 of this Schedule 13G/A is calculated based upon 24,969,783 shares of Common Stock outstanding as of July 31, 2017, as reported in the Issuer's Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2017 filed with the Securities and Exchange Commission on August 3, 2017, and assumes the exercise of the reported Warrants.

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Item 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

Not applicable.

Item 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON

See Item 2. venBio Select Fund LLC has the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, more than 5% of the Common Stock.

Item 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY OR CONTROL PERSON

Not applicable.

Item 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP

Not applicable.

Item 9. NOTICE OF DISSOLUTION OF GROUP

Not applicable.

Item 10. CERTIFICATION

Each Reporting Person hereby makes the following certification:

By signing below the Reporting Person certifies that, to the best of his or its knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

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SIGNATURES

After reasonable inquiry and to the best of his or its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

DATE: October 3, 2017

venBio Select Advisor LLC

/s/ Scott Epstein

Name: Scott Epstein

Title: Chief Financial Officer & Chief
Compliance Officer

/s/ Behzad Aghazadeh

BEHZAD AGHAZADEH