

Mirati Therapeutics, Inc.
Form 4
October 31, 2013

FORM 4

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

OMB APPROVAL

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
ORBIMED ADVISORS LLC

2. Issuer Name and Ticker or Trading Symbol
Mirati Therapeutics, Inc. [MRTX]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
601 LEXINGTON AVENUE, 54TH FLOOR

3. Date of Earliest Transaction (Month/Day/Year)
10/29/2013

____ Director
____ Officer (give title below)
__X__ 10% Owner
____ Other (specify below)

(Street)
NEW YORK, NY 10022

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
____ Form filed by One Reporting Person
__X__ Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock, par value \$0.001 per share	10/29/2013		P		125,000 (1)	A	\$ 17.5
					1,274,332	I	
							See Footnotes (2) (3)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
ORBIMED ADVISORS LLC 601 LEXINGTON AVENUE, 54TH FLOOR NEW YORK, NY 10022		X		
OrbiMed Capital GP IV LLC 601 LEXINGTON AVENUE, 54TH FLOOR NEW YORK, NY 10022		X		
ISALY SAMUEL D 601 LEXINGTON AVENUE, 54TH FLOOR NEW YORK, NY 10022		X		

Signatures

/s/ Samuel D. Isaly 10/31/2013

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
 - ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Represents shares of common stock of the Issuer ("Shares") purchased by OrbiMed Private Investments IV, LP ("OPI IV") in a secondary offering pursuant to a registration statement on Form S-1 (File No. 333-191544) that was completed on October 29, 2013.
 - (2) These Shares are held of record by OPI IV and may be deemed to be indirectly beneficially owned by OrbiMed Capital GP IV LLC ("GP IV"), OrbiMed Advisors LLC ("Advisors"), and Samuel D. Isaly ("Isaly"). GP IV is the sole general partner of OPI IV. Advisors, a registered adviser under the Investment Advisers Act of 1940, as amended, is the sole managing member of GP IV. By virtue of such relationships, GP IV and Advisors may be deemed to have voting and investment power with respect to the securities held by OPI IV noted above. Isaly, a natural person, is the managing member of and owner of a controlling interest in Advisors, and in such capacity may also be deemed to have voting and investment power over the securities held by OPI IV. Peter Thompson, an employee of Advisors,

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currently serves on the Issuer's board of directors.

- (3) This Form 4 is being jointly filed by Advisors, GP IV and Isaly. Each of GP IV, Advisors and Isaly disclaims beneficial ownership of the securities reported herein for purposes of Rule 16a-1(a) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), except to the extent of its or his pecuniary interest therein, if any. This report shall not be deemed an admission that the Reporting Persons are beneficial owners for the purpose of Section 16 of the Exchange Act, or for any other purpose.

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

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