

OCERA THERAPEUTICS, INC.

Reported by
POWELL MICHAEL

FORM 5

(Annual Statement of Changes in Beneficial Ownership)

Filed 02/10/17 for the Period Ending 12/31/16

| | |
|-------------|---|
| Address | 525 UNIVERSITY AVENUE SUITE 610 PALO ALTO, CA 94301 |
| Telephone | 6504625800 |
| CIK | 0001274644 |
| Symbol | OCRX |
| Fiscal Year | 12/31 |

FORM 5

**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).
[] Form 3 Holdings Reported
[X] Form 4 Transactions Reported

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or
Section 30(h) of the Investment Company Act of 1940

| | | |
|--|--|---|
| 1. Name and Address of Reporting Person * POWELL MICHAEL (Last) (First) (Middle) C/O OCERRA THERAPEUTICS, INC., 525 UNIVERSITY AVENUE, SUITE 610 (Street) PALO ALTO, CA 94301 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol Ocera Therapeutics, Inc. [OCRX] 3. Statement for Issuer's Fiscal Year Ended (MM/DD/YYYY) <p align="center">12/31/2016</p> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director _____ 10% Owner <input type="checkbox"/> Officer (give title below) _____ Other (specify below) |
| 4. If Amendment, Date Original Filed (MM/DD/YYYY) | | 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> 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. Trans. Date | 2A. Deemed Execution Date, if any | 3. Trans. 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) |
|---------------------------------|----------------|-----------------------------------|---------------------------|---|------------|--------|---|--|---|
| | | | | Amount | (A) or (D) | Price | | | |
| Common Stock | 7/29/2016 | | S4 (1) | 11969 (1) | D | \$2.53 | 0 | D | |

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

| 1. Title of Derivate Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Trans. Date | 3A. Deemed Execution Date, if any | 4. Trans. 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 (MM/DD/YYYY) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned at End of Issuer's Fiscal Year (Instr. 4) | 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|----------------|-----------------------------------|---------------------------|--|-----|--|-----------------|---|----------------------------|--|---|--|--|
| | | | | | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |

Explanation of Responses:

(These shares were issued upon the Reporting Person's exercise of a stock option on July 11, 2016 that was reported on a Form 4 filed on July 13, 2016. The 1) cash proceeds from this sale of the shares were donated by the Reporting Person to Washington University in St. Louis on August 17, 2016.

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| POWELL MICHAEL C/O OCERRA THERAPEUTICS, INC. 525 UNIVERSITY AVENUE, SUITE 610 PALO ALTO, CA 94301 | X | | | |

Signatures

/s/ Michael Powell

2/10/2017

**Signature of Reporting Person

Date

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

* 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).

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.