

ARCA biopharma, Inc.  
Form 4  
February 17, 2015

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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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 \*  
**BRISTOW MICHAEL R**

(Last) (First) (Middle)

**ARCA BIOPHARMA, INC., 11080  
CIRCLEPOINT ROAD, SUITE 140**

(Street)

**WESTMINSTER, CO 80020**

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
**ARCA biopharma, Inc. [ABIO]**

3. Date of Earliest Transaction  
(Month/Day/Year)  
**02/12/2015**

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
**President and CEO**

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| Common Stock                    | 02/12/2015                           |  | A                              | (A) or (D)<br>Amount<br>48,100<br>(1)                             | \$ 0 340,725 (2)  | D  |   |
| Common Stock                    |                                      |  |                                |   | 139,082   | I  | By Investacor Trust as sole Trustee                   |
| Common Stock                    |                                      |  |                                |   | 178,215   | I  | By NFS Custodian for Michael Bristow's IRA            |

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

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(9-02)

**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. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Stock Option (right to buy)                | \$ 0.67  | 02/12/2015                           |  | A                              | 25,900  | (3) 02/11/2025   | Common Stock  | 25,900                        |

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director    10% Owner    Officer    Other

BRISTOW MICHAEL R  
ARCA BIOPHARMA, INC.  
11080 CIRCLEPOINT ROAD, SUITE 140  
WESTMINSTER, CO 80020

X    President and CEO

## Signatures

/s/ Brian L. Selby,  
Attorney-in-Fact    02/17/2015

\_\_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).
- Represents shares issued as restricted stock units (an "RSU") under the Issuer's 2013 Equity Incentive Plan (the "Plan"). The RSUs vest in
- (1) three equal annual installments beginning April 2, 2016, provided that the Reporting Person's continuous service to the Issuer has not been terminated as defined in or as determined under the Plan prior to such time.
  - (2) Includes 140,034 previously reported shares issued as restricted stock units under the Plan and 152,591 previously reported shares of common stock held directly.
  - (3)

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Grant to the Reporting Person of a stock option under the Plan, vesting in 36 equal monthly installments from the date of grant, provided that the Reporting Person's continuous service to the Issuer has not been terminated as defined in or as determined under the Plan prior to such time. In the event of a change in control of the Issuer, 50% of the unvested options shall become fully and immediately vested upon the closing date of such change in control, provided, however, that on the earlier of (i) the one-year anniversary of the closing date or (ii) involuntary termination, any options that remain unvested on such earlier date shall become fully and immediately vested.

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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