

ARCA biopharma, Inc.  
Form 4  
September 21, 2016

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2015  
Estimated average burden hours per response... 0.5

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

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
11080 CIRCLEPOINT ROAD, SUITE 140  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
09/20/2016

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Pres. & Chief Executive Officer

WESTMINSTER, CO 80020

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

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

(City) (State) (Zip)

**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 (D) Price \$   |   |  |   |
| Common Stock                    | 09/20/2016                           |  | S                              | 1,972 (1) D 2.89 (2)  | 42,638 (3)  | D  |   |
| Common Stock                    |                                      |  |                                |   | 19,986  | I  | By InvestocorTrust as sole Trustee                    |
| Common Stock                    |                                      |  |                                |   | 25,459  | 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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SEC 1474  
(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. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                                 |       |
|---|---------------|-----------|---------------------------------|-------|
|   | Director      | 10% Owner | Officer                         | Other |
| BRISTOW MICHAEL R<br>11080 CIRCLEPOINT ROAD<br>SUITE 140<br>WESTMINSTER, CO 80020 | X             |           | Pres. & Chief Executive Officer |       |

## Signatures

/s/ Brian L. Selby,  
Attorney-in-Fact  
09/21/2016

\*\*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 sold pursuant to a Rule 10b5-1 Plan adopted by the Reporting Person with respect to the vesting of previously reported Restricted Stock Units ("RSUs") granted to the Reporting Person under the Issuer's 2013 Amended and Restated Equity Incentive Plan (the "Plan")
- (2) The price represents the weighted average sale price for multiple transactions reported on this line. The prices of the transactions ranged from \$2.88 to \$2.89. Upon request of the SEC staff, ARCA biopharma, Inc. (the "Company") or a security holder of the Company, the reporting person will provide full information regarding the number of shares sold at each separate price.
- (3) Includes (i) remaining 4,050 previously reported shares issued as RSUs under the Plan that vest in two equal annual installments beginning on 2/27/17, and (ii) 4,581 previously reported shares issued as RSUs under the Plan that vest in two equal annual installments

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beginning 4/2/17, provided that the Reporting Person's continuous service to the Issuer has not been terminated as defined under the Plan; and 34,007 previously reported shares of common stock held directly.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.