

ARCA biopharma, Inc.  
Form 4  
June 13, 2016

**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 \*  
**BRISTOW MICHAEL R**

(Last) (First) (Middle)  
  
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)  
**06/09/2016**

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)  
**Pres. & Chief Executive Officer**

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				(A) or (D)	44,610 <sup>(1)</sup>	D	
Common Stock				(A) or (D)	19,986	I	By InvestocorTrust as sole Trustee
Common Stock				(A) or (D)	25,459	I	By NFS Custodian for Michael Bristow's IRA

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)	\$ 3.3	06/09/2016		A	27,200	<u>(2)</u> 06/08/2026	Common Stock	27,200
Stock Option (right to buy)	\$ 3.3	06/09/2016		A	55,400	<u>(3)</u> 06/08/2026	Common Stock	55,400

## Reporting Owners

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

## Signatures

/s/ Brian L. Selby,  
Attorney-in-Fact

06/13/2016

\*\*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) Includes (i) remaining 5,952 previously reported shares issued as RSUs under the Plan that vests on 9/17/16, (ii) 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 (iii) 4,581 previously reported shares issued as RSUs under the Plan that vest in two equal annual installments beginning 4/2/17, provided that the

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Reporting Person's continuous service to the Issuer has not been terminated as defined under the Plan; and 30,027 previously reported shares of common stock held directly.

- (2) 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.

- (3) Grant to the Reporting Person of a stock option under the Plan, vesting upon achievement of certain pre-specified corporate milestones related to enrollment for the GENETIC-AF clinical trial, and the timing and outcome of the interim data analysis by that trial's Data and Safety Monitoring Board, 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. If the corporate milestones are not achieved, the Option will be cancelled. 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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