

ARCA biopharma, Inc.  
Form 3  
June 17, 2015

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 * |         | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol      |  |
| Â BARRIS PETER J                          |         | (Month/Day/Year)                     | ARCA biopharma, Inc. [ABIO]                      |  |
| (Last)                                    | (First) | (Middle)                             | 06/16/2015                                       |  |
| 1954 GREENSPRING DRIVE,Â SUITE 600        |         |                                      | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                  |         |                                      | (Check all applicable)                           |  |
| TIMONIUM,Â MDÂ 21093                      |         |                                      | <input type="checkbox"/> Director                | <input checked="" type="checkbox"/> 10% Owner                          |
| (City)                                    | (State) | (Zip)                                | <input type="checkbox"/> Officer                 | <input type="checkbox"/> Other   |
|   |         |                                      | (give title below)                               | (specify below)  |
|   |         |                                      |  | 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 Beneficially Owned**

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock                    | 10,221,465  | I  | See Note 1 <sup>(1)</sup>                             |

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

SEC 1473 (7-02)

**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.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
|--|--|---|--|--|---|

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|                         | Date Exercisable | Expiration Date | Amount or Number of Shares | or Indirect (I) (Instr. 5) |                         |
|-------------------------|------------------|-----------------|----------------------------|----------------------------|-------------------------|
| Warrants (Right to Buy) | 12/13/2015       | 06/16/2022      | Common Stock<br>4,088,586  | \$ 0.8716                  | I See Note 1 <u>(1)</u> |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships            |                                     |                          |                          |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|
|   | Director                 | 10% Owner                           | Officer                  | Other                    |
| BARRIS PETER J<br>1954 GREENSPRING DRIVE<br>SUITE 600<br>TIMONIUM, MD 21093 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## Signatures

/s/ Sasha Keough,  
attorney-in-fact

06/17/2015

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, *see* Instruction 5(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).

The Reporting Person is a manager of NEA 15 GP, LLC, ("NEA 15 GP") which is the sole general partner of NEA Partners 15, L.P. ("NEA Partners 15"). NEA Partners 15 is the sole general partner of New Enterprise Associates 15, L. P. ("NEA 15"). NEA 15 is the sole member of Growth Equity Opportunities Fund IV, LLC ("GEO IV"), which is the direct beneficial owner of the shares. The Reporting Person disclaims beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the shares held by GEO IV in which the Reporting Person has no pecuniary interest.

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.