

ARCA biopharma, Inc.  
 Form 4  
 February 13, 2014

**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 \*  
 Grais Linda S

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)

3. Date of Earliest Transaction (Month/Day/Year)  
 02/11/2014

Director  10% Owner  
 Officer (give title below)  Other (specify below)

C/O ARCA BIOPHARMA, INC., 11080 CIRCLEPOINT ROAD, SUITE 140

(Street)

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

WESTMINSTER, CO 80020

(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 Ownership (Instr. 4) |     |       |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------|-----|-------|
|                                 |                                      |                                                    |                                | (A) or (D)                                                        | Code                                                                                          | V                                                        | Amount                            | (D) | Price |

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 | 2. Conversion | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if | 4. Transaction of | 5. Number of Derivative | 6. Date Exercisable and Expiration Date | 7. Title and Amount of Underlying Securities | 8. F |
|------------------------|---------------|--------------------------------------|-------------------------------|-------------------|-------------------------|-----------------------------------------|----------------------------------------------|------|
|------------------------|---------------|--------------------------------------|-------------------------------|-------------------|-------------------------|-----------------------------------------|----------------------------------------------|------|

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| Security (Instr. 3)         | or Exercise Price of Derivative Security | any (Month/Day/Year) | Code (Instr. 8) | Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | (Month/Day/Year) | (Instr. 3 and 4) | Sec (In          |                 |              |                            |
|-----------------------------|------------------------------------------|----------------------|-----------------|-----------------------------------------------------------------|------------------|------------------|------------------|-----------------|--------------|----------------------------|
|                             |                                          |                      | Code            | V                                                               | (A)              | (D)              | Date Exercisable | Expiration Date | Title        | Amount or Number of Shares |
| Stock Option (right to buy) | \$ 1.8                                   | 02/11/2014           | A               |                                                                 | 8,000            |                  | <u>(1)</u>       | 02/11/2024      | Common Stock | 8,000                      |

## Reporting Owners

| Reporting Owner Name / Address                                                                          | Relationships |           |         |       |
|---------------------------------------------------------------------------------------------------------|---------------|-----------|---------|-------|
|                                                                                                         | Director      | 10% Owner | Officer | Other |
| Grais Linda S<br>C/O ARCA BIOPHARMA, INC.<br>11080 CIRCLEPOINT ROAD, SUITE 140<br>WESTMINSTER, CO 80020 | X             |           |         |       |

## Signatures

/s/ Patrick M. Wheeler,  
Attorney-in-Fact

02/13/2014

\_\_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).

Grant to the Reporting Person of a stock option under the 2013 Equity Incentive Plan, vesting in 12 equal monthly installments beginning (1) as of January 1, 2014. If the Reporting Person's service as a director of the Issuer terminates in connection with or at any time following a change in control (for whatever reason), then any unexpired options that remain unvested shall become fully 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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