

SOBEL BURTON E  
Form 4  
February 14, 2012

**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 \*  
SOBEL BURTON E

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)

C/O ARCA BIOPHARMA,  
INC., 8001 ARISTA PLACE, SUITE  
430

3. Date of Earliest Transaction  
(Month/Day/Year)  
02/10/2012

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

(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

BROOMFIELD, CO 80021

(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 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.

**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.**

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 Derivative | 5. Number of Derivative | 6. Date Exercisable and Expiration Date | 7. Title and Amount of Underlying Securities |
|------------------------|---------------|--------------------------------------|-------------------------------|------------------------------|-------------------------|---|--|
|------------------------|---------------|--------------------------------------|-------------------------------|------------------------------|-------------------------|---|--|

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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) |                  |                 |              |                            |
|---------------------------------|--|----------------------|-----------------|---|------------------|------------------|------------------|-----------------|--------------|----------------------------|
|                                 |  |                      | Code            | V   | (A)              | (D)              | Date Exercisable | Expiration Date | Title        | Amount or Number of Shares |
| Option to Purchase Common Stock | \$ 1                                     | 02/10/2012           | A               |   | 3,500            |                  | 02/10/2012       | 02/10/2022      | Common Stock | 3,500                      |
| Option to Purchase Common Stock | \$ 1                                     | 02/10/2012           | A               |   | 3,500            |                  | <u>(1)</u>       | 02/10/2022      | Common Stock | 3,500                      |

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director    10% Owner    Officer    Other

SOBEL BURTON E  
C/O ARCA BIOPHARMA, INC.  
8001 ARISTA PLACE, SUITE 430  
BROOMFIELD, CO 80021

X

## Signatures

/s/ Christopher D. Ozeroff,  
Attorney-in-Fact

02/14/2012

        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).

The options vest in 12 equal monthly installments measured from 1/1/12. If the Reporting Person's service as a director of the Issuer (1) terminates in connection with or at anytime 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. 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.