

ARCA biopharma, Inc.  
Form 3  
November 02, 2012

**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 Atlas Venture Fund VII L P              |         | (Month/Day/Year)                     | ARCA biopharma, Inc. [ABIO]  |  |
| (Last)                                    | (First) | (Middle)                             | 4. Relationship of Reporting Person(s) to Issuer                                 | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| 25 FIRST STREET, SUITE 303                |         |                                      | (Check all applicable)   |  |
| (Street)                                  |         |                                      | <input type="checkbox"/> Director  | <input checked="" type="checkbox"/> 10% Owner        |
| CAMBRIDGE,Â MAÂ 02141                     |         |                                      | <input type="checkbox"/> Officer   | <input type="checkbox"/> Other                       |
| (City)                                    | (State) | (Zip)                                | (give title below)   | (specify below)                                      |
|   |         |                                      | 6. Individual or Joint/Group Filing(Check Applicable Line)                       |  |
|   |         |                                      | <input type="checkbox"/> Form filed by One Reporting Person                      |  |
|   |         |                                      | <input checked="" 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                    | 1,579,542 <sup>(1)</sup>                              | D  | Â   |

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) or Indirect | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
|  | Date Exercisable   | Title   | Amount or Number of                                    |  |   |

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|                                     |       |            |                 | Shares         |           | (I)<br>(Instr. 5) |   |
|-------------------------------------|-------|------------|-----------------|----------------|-----------|-------------------|---|
| Warrant to Purchase<br>Common Stock | Â (2) | 10/10/2013 | Common<br>Stock | 75,449 (1)     | \$ 9.7406 | D                 | Â |
| Warrant to Purchase<br>Common Stock | Â (2) | 10/25/2017 | Common<br>Stock | 238,034<br>(1) | \$ 0.3001 | D                 | Â |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |         |       |
|---|---------------|-----------|---------|-------|
|   | Director      | 10% Owner | Officer | Other |
| Atlas Venture Fund VII L P<br>25 FIRST STREET, SUITE 303<br>CAMBRIDGE, MA 02141         | Â             | Â X       | Â       | Â     |
| Atlas Venture Associates VII, L.P.<br>25 FIRST STREET, SUITE 303<br>CAMBRIDGE, MA 02141 | Â             | Â X       | Â       | Â     |

## Signatures

Atlas Venture Fund VII, L.P. By: Atlas Venture Associates VII, L.P., its general partner By:  
Atlas Venture Associates VII, Inc., its general partner /s/ Kristen Laguerre Name: Kristen  
Laguerre Title: Vice President 11/02/2012

\_\_Signature of Reporting Person Date

Atlas Venture Associates VII, L.P. By: Atlas Venture Associates VII, Inc., /s/ Kristen Laguerre  
Name: Kristen Laguerre Title: Vice President 11/02/2012

\_\_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).

Atlas Venture Fund VII, L.P. ("AV VII") is the record holder of these securities. Atlas Venture Associates VII, L.P. ("AVA VII LP") is  
(1) the sole general partner of AV VII. Each of AV VII and AVA VII LP disclaims beneficial ownership of the reported securities except to  
the extent of their pecuniary interest therein.

(2) This warrant is immediately exercisable.

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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