FORMELA JEAN FRANCOIS
Form 4
February 14, 2012

FORM 4

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

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

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).

(Print or Type Responses)

1. Name and Address of Reporting Person *
FORMELA JEAN FRANCOIS

(Last) (First) (Middle)

C/O ATLAS VENTURE FUND VII, L.P., 25 FIRST STREET, SUITE 303

(Street)

CAMBRIDGE, MA 02141

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading Symbol
ARCA biopharma, Inc. [ABIO]

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

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(Check Applicable Line)
_X_ 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)
			Code	V	Amount	(A) or (D)	Price			

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

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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	5. Number of Derivative	6. Date Exercisable and Expiration Date	7. Title and Amount of Underlying Securities	8

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		(2)	02/10/2022	Common Stock	3,500

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
FORMELA JEAN FRANCOIS C/O ATLAS VENTURE FUND VII, L.P. 25 FIRST STREET, SUITE 303 CAMBRIDGE, MA 02141	X	X		

Signatures

/s/ Frank Castellucci, 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).

(1) This option was granted to Jean-Francois Formela, a director of the issuer. The proceeds of any sale of the issuer's common stock issued to Dr. Formela upon the exercise of this option will be transferred to Atlas Venture Advisors, Inc. ("Atlas Advisors") and therefore Dr. Formela disclaims beneficial ownership of such shares which belong to Atlas Advisors.

(2) 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 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.
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