

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
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1. Name and Address of Reporting Person* JONES ROBERT C (Last) (First) (Middle) FLUIDIGM CORPORATION 7000 SHORELINE COURT, SUITE 100 (Street) SOUTH SAN FRANCISCO CA 94080 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol FLUIDIGM CORP [FLDM]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) EVP, RESEARCH & DEVELOPMENT
	3. Date of Earliest Transaction (Month/Day/Year) 02/01/2013	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	
6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> 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			
Common Stock	02/01/2013		M		208	A	\$4.4461	208	D	
Common Stock	02/01/2013		s ⁽¹⁾		208	D	\$16.6601	0	D	
Common Stock	02/01/2013		M		6,729	A	\$4.4461	6,729	D	
Common Stock	02/01/2013		s ⁽¹⁾		6,729 ⁽²⁾	D	\$16.6107 ⁽²⁾	0	D	
Common Stock	02/04/2013		M		47	A	\$4.4461	47	D	
Common Stock	02/04/2013		s ⁽¹⁾		47	D	\$16.51	0	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Employee Stock Option (Right to Buy)	\$4.4461	02/01/2013		M			208	(3)	04/23/2018	Common Stock	208	\$0	0	D	
Employee Stock Option (Right to Buy)	\$4.4461	02/01/2013		M			6,729	(4)	04/23/2018	Common Stock	6,729	\$0	1,528	D	
Employee Stock Option (Right to Buy)	\$4.4461	02/04/2013		M			47	(4)	04/23/2018	Common Stock	47	\$0	1,481	D	

Explanation of Responses:

- The sales reported by Mr. Jones were effected pursuant to a Rule 10b5-1 trading plan adopted on February 24, 2012.
- The "Amount" and "Price" reported in this Column 4 reflect the aggregate number and weighted-average price, respectively, of shares sold. These shares were sold in multiple transactions at prices ranging from \$16.40 to \$16.77, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the SEC staff, upon request, full information regarding the number of shares sold at each separate price within the range set forth herein.
- The shares subject to the Option fully vested on March 22, 2010.
- The Option was originally granted on April 23, 2008 and was re-granted on December 23, 2009 as part of the Issuer's option repricing. 6,089 shares subject to the Option were vested as of the re-grant date, an additional 1,652 shares vested on December 31, 2011 and 172 shares vest monthly thereafter.

/s/ Valerie Barnett, attorney-in-fact 02/05/2013

** Signature of Reporting Person Date

* 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).

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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