FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 2

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

0549	OMB APPROVAL

OMB Number: Estimated average burden hours per response: 0.5

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

1. Name and Address of Reporting Person* Smith William Maxwell						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 Officer (give title Other (specif					vner		
(Last) (First) (Middle) FLUIDIGM CORPORATION 7000 SHORELINE COURT, SUITE 100						3. Date of Earliest Transaction (Month/Day/Year) 02/01/2013									X Officer (give title Offier (specify below) See Remarks						
(Street) SOUTH SAN FRANCISCO CA 94080					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)																		
		Tab	le I - I	Non-Deri	vative	e Sec	uriti	es A	cquire	ed, D	isposed c	of, or B	enefici	ally (Owned	<u> </u>					
			2. Transaction Date (Month/Day/Year)		Execution Date,				4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			Benefic Owned		es ially Following	Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount	(A) or (D)	Price		Reporte Transac (Instr. 3	tion(s)			(Instr. 4)		
Common Stock			02/01/2	013			M		2,693	A	\$4.44	161	2,	693		D					
Common Stock			02/01/2	013			S ⁽¹⁾		2,693(2)	D	\$16.56	89 ⁽²⁾		0		D					
Common Stock 02/0			02/01/2	013	13					2,307	A	\$4.44	61	2,	,307		D				
Common Stock 02/			02/01/2	013	13			S ⁽¹⁾		2,307(3)	D	\$16.45	.6.4516 ⁽³⁾		0		D				
		٦	Table								sposed of, , converti				wned						
1. Title of Derivative Security (Instr. 3)	e of 2. 3. Transaction Date Execution (Month/Day/Year) if any		emed 4. ion Date, Tran				rities uired or osed) r. 3, 4	6. Date Ex Expiration (Month/Da red			7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Securities Following Reported Transactio (Instr. 4)	Owi Fori ly Dire or li (I) (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exerci	isable	Expiration Date	Title	Amour or Number of Shares	er							
Employee Stock Option (Right to Buy)	\$4.4461	02/01/2013			M			2,693	(4	4)	08/14/2016	Commor Stock	2,693	3	\$0	0		D			
Employee Stock Option (Right to	\$4.4461	02/01/2013			M			2,307	(5	5)	04/23/2018	Commor Stock	2,30	7	\$0	9,253		D			

Explanation of Responses:

- $1. \ The sales \ reported \ by \ Mr. \ Smith \ were \ effected \ pursuant \ to \ a \ Rule \ 10b5-1 \ trading \ plan \ adopted \ on \ November \ 28, \ 2012.$
- 2. 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 \$16.53 to \$16.59, 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.
- 3. 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 \$16.38 to \$16.57, 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.
- 4. The shares subject to the Option fully vested on May 1, 2010.
- 5.10,837 shares subject to the Option vested on December 31,2011 and 241 shares vest monthly thereafter.

Remarks:

EXECUTIVE VP, LEGAL AFFAIRS & GENERAL COUNSEL

/s/ Valerie Barnett, attorney-in-

02/05/2013

** Signature of Reporting Person

Date

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

- * 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.

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 Number.