FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	DVAL				
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).

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 (Last) (First) (Middle) FLUIDIGM CORPORATION 7000 SHORELINE COURT SUITE 100							DIG]	M CC	ORF	or Tradi P [FL]	DM	•	(Ch	Relationship of Reporting Person(s) to Issuer check all applicable) Director 10% Owner X Officer (give title Other (specify below) EVP, Legal Affairs & GC				vner			
(Street) SOUTH SAN FRANCISCO (City) (State) (Zip)							4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transa Date (Month/D					action	ar) i	2A. Deemed Execution Date, if any (Month/Day/Year)			3. Transac Code (In 8)	tion	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			I (A) or	5. Amou Securiti Benefic Owned	int of es ally Following	Form (D) o	n: Direct or Indirect ostr. 4)	Ownership	
							Code	v	Amount	(A (D	a) or))	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)				
Common	Stock	5/2012	2012				M		3,000)	A	\$1.82	2 52,545			D					
Common	Stock			05/15	5/2012	2				S ⁽¹⁾		3,000)	D	\$14.2	6 49	,545	D			
		7	able II -									osed of onverti				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,		ransaction Code (Instr.		ivative urities juired or posed D) tr. 3, 4	Exp	Date Exe piration I ponth/Day	Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Dat Exe	te ercisable		xpiration ate	Title		Amount or Number of Shares						
Employee Stock Option (Right to Buy)	\$1.82	05/15/2012			М			3,000		(2)	0	7/15/2013	Comm Stock		3,000	\$0	9,412		D		

Explanation of Responses:

- 1. The sales reported by Mr. Smith were effected pursuant to a Rule 10b5-1 trading plan adopted on September 6, 2011.
- 2. The Option fully vested on April 1, 2007.

/s/ William M. Smith 05/17/2012

** 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.