FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF	CHANGES IN	<b>BENEFICIAL</b>	OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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 ]									all appli Directo			10% Owner	
(Last) (First) (Middle) FLUIDIGM CORPORATION 7000 SHORELINE COURT, SUITE 100						3. Date of Earliest Transaction (Month/Day/Year) 08/13/2012								X	below)	(give title 7P, Legal A	Affai	Other (s below)	specify
(Street) SOUTH SAN FRANCISCO CA 94080 (City) (State) (Zip)				4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								Indiv ne) X						
		Tab	le I - I	Non-Deri	vative	Sec	urit	ies A	cauire	d. D	oisposed o	of. or B	eneficia	ıllv (	Owner	<u> </u>			
1. Title of Security (Instr. 3)		2. Transact Date (Month/Day	ion	on 2A. De Execu Year) if any		. Deemed ecution Date,		tion istr.	4. Securities Acquired (A) or			5. Amo Securit Benefic Owned		unt of es ially Following	6. Ownership 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		ction(s)			(Instr. 4)
Common	ommon Stock 08/13/201			012	12			M		3,000	Α	\$1.82		52,545		D			
Common	Stock			08/13/2	012				S <sup>(1)</sup>		3,000(2)	D	\$14.766	2 <sup>(2)</sup>	<sup>(2)</sup> 49,545 D				
		7	able								sposed of				wned				
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. Transa Code ( 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		De Se (In	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (Right to	\$1.82	08/13/2012			M			3,000	(3)		07/15/2013	Commo	n 3,000		\$0	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 "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 \$14.72 to \$14.82, 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 Option fully vested on April 1, 2007.

/s/ Valerie Barnett, attorney-in-

08/14/2012

\*\* Signature of Reporting Person

<u>fact</u>

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.