FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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).

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

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1. Name ar Smith V		2. Issuer Name <b>and</b> Ticker or Trading Symbol FLUIDIGM CORP [ FLDM ]								heck a	all applic Directo		Persor	n(s) to Iss 10% Ow Other (s	/ner				
(Last)	•	(First) (Middle) M CORPORATION				3. Date of Earliest Transaction (Month/Day/Year) 04/09/2012								X below) below)  EVP, Legal Affairs & GC					респу
7000 SHORELINE COURT SUITE 100																			
(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)	City) (State) (Zip)																		
		Tab	le I - I	Non-Deri	vative	Sec	urit	ies A	cquire	d, D	isposed c	of, or B	eneficia	lly O	wnec	I			
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day					Execution		Date,			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an			Benefic		es ially Following	6. Owner Form: D (D) or In (I) (Inst	Direct condirect E	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Transa (Instr. 3		tion(s)			(Instr. 4)
Common Stock 04/09/201					012	2			М		3,000	Α	\$1.82	.82 52		,545	Γ	)	
Common Stock 04/09/2013					012	2		S <sup>(1)</sup>		3,000(2)	D	\$14.753	4.7536 <sup>(2)</sup> 4		9,545		)		
		7	able								sposed of, , converti			y Ow	ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any		4. Transa Code ( 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)				9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y Di or (I)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares						
Employee Stock Option (Right to	\$1.82	04/09/2012			M			3,000	(3)		07/15/2013	Commor Stock	3,000		\$0	12,412		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 \$14.74 to \$14.77, 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.
- 3. The Option fully vested on April 1, 2007

<u>/s/ William M. Smith</u> <u>04/10/2012</u>

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.