FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFICIAI	OWNERSHIP

gton, D.C. 20549 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

Yow Mai Chan						FLUIDIGM CORP [FLDM]								(Check all applicable) Director The property of the point of the property of					
(Last) (First) (Middle) FLUIDIGM CORPORATION 7000 SHORELINE COURT SUITE 100					3. Date of Earliest Transaction (Month/Day/Year) 09/19/2011								VP, WW Mfg & MD-Singapore						
(Street) SOUTH SAN FRANCISCO CA 94080				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				n	
(City)	(S	tate)	(Zip)																
Table I - 1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye		2A. Deemed Execution Date,		ed Date,	3. Transaction Code (Instr. 8)		A. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and				5. Amount of		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			Transaction(s) (Instr. 3 and 4)				(111501.4)	
Common	Stock			09/19/2	2011	11			M		5,093	A	\$4	.08	5,	5,093		D	
Common	Stock			09/19/2	2011	11			S ⁽¹⁾		5,093(2)	D	\$14.4204 ⁽²⁾		0.00			D	
Common	Stock			09/19/2	2011	11			M		3,468	A	\$4.08		3,468			D	
Common	Common Stock			09/19/2	2011			S ⁽¹⁾		3,468(2)	D	\$14.4204 ⁽²⁾		0	0.00		D		
Common Stock			09/19/2	09/19/2011				M		4,772	A	\$3.39		4,	4,772		D		
Common Stock			09/19/2011				S ⁽¹⁾		4,772(2)	D	\$14.4204 ⁽²⁾		0	0.00		D			
Common Stock			09/19/2011				M		6,667	A	\$4.45		6,667			D			
Common Stock			09/19/2011				S ⁽¹⁾		6,667(2)	D	\$14.4	\$14.4204 ⁽²⁾		0.00		D			
Common Stock			09/20/2011				M		20,000	A	\$3.39		20,000			D			
Common Stock			09/20/2	/20/2011				S ⁽¹⁾		20,000 ⁽⁷⁾	D	\$14.	\$14.6172		0.00		D		
			Table								posed of,				wned				
1. Title of Derivative Security (Instr. 3)	e of 2. 3. Transaction 3A. Deemed Execution Date, rity or Exercise (Month/Day/Year) if any		4. Trans	5. Number of Operivative		6. Date Exercisable a Expiration Date (Month/Day/Year)		cisable and	7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security		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 Exerc	cisable	Expiration Date	Title	Amo or Num of Shar	ber					
Employee Stock Option (Right to Buy)	\$4.08	09/19/2011			M			5,093	((3)	11/17/2019	Commor Stock	5,0	93	\$0	687		D	
Employee Stock Option (Right to Buy)	\$4.08	09/19/2011			М			3,468	((4)	11/17/2019	Commor Stock	3,4	68	\$0	2,312		D	
Employee Stock Option (Right to Buy)	\$3.39	09/19/2011				4,772		4,772	((5)	08/02/2015 Common Stock 4,7		4,7	72	\$0	20,000		D	
Employee Stock Option (Right to Buy)	\$4.45	09/19/2011			М			6,667	((6)	09/26/2016	Commor Stock	6,6	67	\$0	1,590		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)	Transaction of Code (Instr. 8) Se Ac (A) Dis of			umber vative urities uired or oosed o) (Instr. and 5)	6. Date Exerc Expiration Da (Month/Day/\)	ate	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	Amount or Number of Shares				
Employee Stock Option (Right to Buy)	\$3.39	09/20/2011		M			20,000	(5)	08/02/2015	Common Stock	20,000	\$0	0	D	

Explanation of Responses:

- $1. \ The \ sales \ reported \ by \ Ms. \ Yow \ were \ effected \ pursuant \ to \ a \ Rule \ 10b5-1 \ trading \ plan \ adopted \ on \ September \ 13, 2011.$
- 2. The "Amount" and "Price" reported in this Column 4 reflect the aggregate number and weighted-average price, respectively, of shares acquired. These shares were purchased in multiple transactions at prices ranging from \$14.12 to \$14.59, 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 purchased at each separate price within the ranges set forth herein.
- 3. 70% of the shares subject to the Option vested on December 31, 2009, 25% of the remaining 30% of the shares subject to the Option vested on April 1, 2010 and 1/48th of the remaining unvested shares subject to the Option shall vest each month thereafter.
- 4. 60% of the shares subject to the Option vested on December 31, 2009 and the remaining shares shall vest on December 31, 2012.
- 5. 100% of the shares subject to the Option vested on June 8, 2009.
- 6. 100% of the shares subject to the Option vested on December 27, 2010.
- 7. The "Amount" and "Price" reported in this Column 4 reflect the aggregate number and weighted-average price, respectively, of shares acquired. These shares were purchased in multiple transactions at prices ranging from \$14.27 to \$14.99, 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 purchased at each separate price within the ranges set forth herein.

/s/ William M. Smith, attorneyin-fact

** 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.

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