FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL								
	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

Name and Address of Reporting Person* Yow Mai Chan							2. Issuer Name and Ticker or Trading Symbol FLUIDIGM CORP [FLDM]							of Reporting cable) or (give title	10% Own		ner
(Last) (First) (Middle) FLUIDIGM CORPORATION 7000 SHORELINE COURT SUITE 100						3. Date of Earliest Transaction (Month/Day/Year) 02/17/2012							X Officer (give title Officer (specify below) See Remarks				
(Street) SOUTH SAN FRANCISCO CA 94080 (City) (State) (Zip)				4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable te) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - Nor	ı-Deriv	/ative	e Sec	curities	Ac	quired, Di	sposed o	of, or Be	neficial	y Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,			Code (Ins	le (Instr. 5)			Beneficia	es Formally (D) of (I) (I)		Direct Condinect Extr. 4)	. Nature of Indirect deneficial dwnership dnstr. 4)
	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		3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transactior Code (Instr. 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		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 Transactio (Instr. 4)	ly	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)	\$15.49	02/17/2012			A		60,000		(1)	02/16/2022	Common Stock	60,000	\$0	60,000)	D	

Explanation of Responses:

1. 1/48 of the shares subject to the Option vested on the date of grant and 1/48 of the shares subject to the Option will vest on March 1, 2012 and each month thereafter, such that the Option will be fully vested on January 1, 2016.

Remarks:

Executive VP, Worldwide Mfg and Managing Director-Singapore

/s/ William M. Smith, attorneyin-fact <u>02/21/2012</u>

** 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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