FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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

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*  Worthington Gajus Vincent						2. Issuer Name and Ticker or Trading Symbol FLUIDIGM CORP [ FLDM ]								Officer (give title Other)				Owner (specify	
(Last) (First) (Middle) FLUIDIGM CORPORATION 7000 SHORELINE COURT, SUITE 100						3. Date of Earliest Transaction (Month/Day/Year) 02/15/2011								President & CEO					
(Street) SOUTH SAN FRANCISCO CA 94080					4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								G. Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
(City)	(5)	•	(Zip)	n Dori	en tive				ai.v.a.d	Die	nagad	of or D	noficia	Illy Owns					
1. Title of Security (Instr. 3)  2. Transact Date (Month/Date			ction	tion 2A. Deemed Execution Date,		3. Transa	ansaction Disposed Of (D) (Instr. 3, 4 ode (Instr. 5)		ed (A) or	5. Amount of Securities Beneficially Owned Following		Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership					
									Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ction(s)		(	nstr. 4)	
Common Stock 02/15			/2011	011 02/15/2011		X <sup>(1)</sup>		514	A	\$0 <sup>(2)</sup>	375	,160			See Footnote <sup>(3)</sup>				
Common Stock 02/15/2			/2011	011 02/15/2011		F <sup>(1)(4)</sup>		1	D	\$13.5	375	375,159			See Footnote <sup>(3)</sup>				
		Т	able II -									, or Ben ible sec		y Owned					
1. Title of Derivative Security (Instr. 3)  2. Conversion or Exercise Price of Derivative Security		on Date se (Month/Day/Year) i		ecution Date, Iny		4. Transaction Code (Instr. 8)		ı of E		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 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)		Date Exercisal		Expiration Date	Title	Amount or Number of Shares						
Series E-1 Preferred Warrant (Right to Buy)	\$0.02	02/15/2011	02/15	/2011	х			515	01/06/202	11	(4)(5)	Common Stock	515	\$0	0		I	See Footnote <sup>(3)</sup>	

## **Explanation of Responses:**

- 1. Represents shares of Common Stock issued upon the exercise and subsequent conversion of a Warrant to purchase shares of Series E-1 Preferred Stock and has no expiration date.
- 3. Gajus V. Worthington and Jami A. Worthington as TTEEs of the Worthington Family Trust UAD dated March 6, 2007 are the record holder of the securities reported.
- 4. Each share of Series E-1 Preferred Stock automatically converted into one share of Common Stock on February 15, 2011, the closing date of the Issuer's initial public offering (the "Closing").
- $5. \ The \ warrant \ was automatically net exercised immediately prior to the Closing.$

/s/ Willliam Smith, attorney-in-02/16/2011 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.

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.