VERSANT VENTURE CAPITAL I LP
Form SC 13G/A
February 11, 2013

SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934
(Amendment No. 1)*

Fluidigm Corporation

(Name of Issuer)

Common Stock

(Title of Class of Securities)

34385P108

(CUSIP Number)

December 31, 2012

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

o Rule 13d-1(b)
o Rule 13d-1(c)
x Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1. Names of Reporting Persons
Versant Venture Capital I, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
Delaware, United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:		
	5.	Sole Voting Power 961,349 (2)
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 961,349 (2)
	8.	Shared Dispositive Power 0

9. Aggregate Amount Beneficially Owned by Each Reporting Person
961,349 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
3.85% (3)

12. Type of Reporting Person (See Instructions)
PN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) VVI-LLC serves as the general partner of VVC- I and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC-I. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
Versant Side Fund I, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
Delaware, United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:		
	5.	Sole Voting Power 20,017 (2)
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 20,017 (2)
	8.	Shared Dispositive Power 0

9. Aggregate Amount Beneficially Owned by Each Reporting Person
20,017 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
0.08% (3)

12. Type of Reporting Person (See Instructions)
PN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) VVI-LLC serves as the general partner of VSF-I and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VSF-I. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
Versant Affiliates Fund I-A, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
Delaware, United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 17,696 (2)
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 17,696 (2)
	8.	Shared Dispositive Power 0

9. Aggregate Amount Beneficially Owned by Each Reporting Person
17,696 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
0.07% (3)

12. Type of Reporting Person (See Instructions)
PN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) VVI-LLC serves as the general partner of VAF-I-A and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VAF-I-A. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
Versant Affiliates Fund I-B, L.P.

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
Delaware, United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 51,878 (2)
	6.	Shared Voting Power 0
	7.	Sole Dispositive Power 51,878 (2)
	8.	Shared Dispositive Power 0

9. Aggregate Amount Beneficially Owned by Each Reporting Person
51,878 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
0.21% (3)

12. Type of Reporting Person (See Instructions)
PN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) VVI-LLC serves as the general partner of VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
Versant Ventures I, LLC

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
Delaware, United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 1,050,940 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 1,050,940 (2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,050,940 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
4.21% (3)

12. Type of Reporting Person (See Instructions)
OO

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; and (iv) 51,878 shares held by VAF-I-B. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
BRIAN G. ATWOOD

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:		
	5.	Sole Voting Power 0
	6.	Shared Voting Power 1,050,940 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 1,050,940 (2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,050,940 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
4.21% (3)

12. Type of Reporting Person (See Instructions)
IN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; and (iv) 51,878 shares held by VAF-I-B. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1.	Names of Reporting Persons SAMUEL D. COLELLA		
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) o (b) x (1)		
3.	SEC Use Only		
4.	Citizenship or Place of Organization United States of America		
Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 49,586 (2)	
	6.	Shared Voting Power 1,050,940 (3)	
	7.	Sole Dispositive Power 49,586 (2)	
	8.	Shared Dispositive Power 1,050,940 (3)	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 1,100,526 (2)(3)		
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o		
11.	Percent of Class Represented by Amount in Row 9 4.40% (4)		
12.	Type of Reporting Person (See Instructions) IN		

(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR) (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes (i) options to acquire 41,340 shares of Common Stock held directly by SDC for the benefit of VVI-LLC, and (ii) a warrant to purchase 8,246 shares of Common Stock held by Colella Family Trust u/d/t 9/21/92.

(3) (3) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; (iv) 51,878 shares held by VAF-I-B; (v) options to acquire 41,340 shares of Common Stock held directly by SDC for the benefit of VVI-LLC, and (vi) a warrant to purchase 8,246 shares of Common Stock held by Colella Family Trust u/d/t 9/21/92. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(4) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
ROSS A. JAFFE, M.D.

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:		
	5.	Sole Voting Power 0
	6.	Shared Voting Power 1,050,940 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 1,050,940 (2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,050,940 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
4.21% (3)

12. Type of Reporting Person (See Instructions)
IN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; and (iv) 51,878 shares held by VAF-I-B. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
WILLIAM J. LINK, Ph.D.

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 1,050,940 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 1,050,940 (2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,050,940 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
4.21% (3)

12. Type of Reporting Person (See Instructions)
IN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; and (iv) 51,878 shares held by VAF-I-B. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
DONALD B. MILDER

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 1,050,940 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 1,050,940 (2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,050,940 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
4.21% (3)

12. Type of Reporting Person (See Instructions)
IN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; and (iv) 51,878 shares held by VAF-I-B. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
REBECCA B. ROBERTSON

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power 0
	6.	Shared Voting Power 1,050,940 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 1,050,940 (2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,050,940 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
4.21% (3)

12. Type of Reporting Person (See Instructions)
IN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; and (iv) 51,878 shares held by VAF-I-B. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

1. Names of Reporting Persons
BARBARA N. LUBASH

2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) o
(b) x (1)

3. SEC Use Only

4. Citizenship or Place of Organization
United States of America

Number of Shares Beneficially Owned by Each Reporting Person With:		
	5.	Sole Voting Power 0
	6.	Shared Voting Power 1,050,940 (2)
	7.	Sole Dispositive Power 0
	8.	Shared Dispositive Power 1,050,940 (2)

9. Aggregate Amount Beneficially Owned by Each Reporting Person
1,050,940 (2)

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o

11. Percent of Class Represented by Amount in Row 9
4.21% (3)

12. Type of Reporting Person (See Instructions)
IN

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(1) This Schedule 13G is filed by Versant Venture Capital I, L.P. (VVC- I), Versant Side Fund I, L.P. (VSF-I), Versant Affiliates Fund I-A, L.P. (VAF-I-A), Versant Affiliates Fund I-B, L.P. (VAF-I-B), Versant Ventures I, LLC (VVI-LLC), Brian G. Atwood (BGA), Samuel D. Colella (SDC), Ross A. Jaffe (RAJ), William J. Link (WJL), Donald B. Milder (DBM) Barbara N. Lubash (BNL) and Rebecca B. Robertson (RBR (collectively, the Versant Entities). The Versant Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Includes: (i) 961,349 shares held by VVC-I; (ii) 20,017 shares held by VSF-1; (iii) 17,696 shares held by VAF-I-A; and (iv) 51,878 shares held by VAF-I-B. VVI-LLC serves as the general partner of VVC- I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ , WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC and share voting and dispositive power over the shares held by VVC- I, VSF-I, VAF-I-A and VAF-I-B. The information with respect to the ownership of the Common Stock of the Issuer by the persons filing this statement on Schedule 13G is provided as of December 31, 2012.

(3) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

Item 1(a). Name of Issuer:
FLUIDIGM CORPORATION

Item 1(b). Address of Issuer s Principal Executive Offices
7000 Shoreline Court, Suite 100

South San Francisco, California 94080

Item 2(a). Name of Person Filing:

Versant Venture Capital I, L.P. (VVC-I)

Versant Side Fund I, L.P. (VSF-I)

Versant Affiliates Fund I-A, L.P. (VAF-I-A)

Versant Affiliates Fund I-B, L.P. (VAF-I-B)

Versant Ventures I, LLC (VVI-LLC)

Brian G. Atwood (BGA)

Samuel D. Colella (SDC)

Ross A. Jaffe (RAJ)

William J. Link (WJL)

Donald B. Milder (DBM)

Rebecca B. Robertson (RBR)

Barbara N. Lubash (BNL)

Item 2(b). Address of Principal Business Office or, if none, Residence:

Versant Ventures

3000 Sand Hill Road, #4-210

Menlo Park, CA 94025

Item 2(c). Citizenship:

Entities:	VVC-I	-	Delaware, United States of America
	VSF-1	-	Delaware, United States of America
	VAF-1-A	-	Delaware, United States of America
	VAF-1-B	-	Delaware, United States of America
	VVI-LLC	-	Delaware, United States of America
Individuals:	BGA	-	United States of America
	SDC	-	United States of America
	RAJ	-	United States of America
	WJL	-	United States of America
	DBM	-	United States of America
	BNL	-	United States of America
	RBR	-	United States of America

Item 2(d). Title of Class of Securities:
Common Stock

Item 2(e). CUSIP Number:
34385P108

Item 3. If this statement is filed pursuant to §§240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:
Not Applicable

Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

Versant Entities	Shares Held Directly	Sole Voting Power	Shared Voting Power	Sole Dispositive Power	Shared Dispositive Power	Beneficial Ownership	Percentage of Class (2)
VVC-1	961,349	961,349	0	961,349	0	961,349	3.85%
VSF-1	20,017	20,017	0	20,017	0	20,017	0.08%
VAF-I-A	17,696	17,696	0	17,696	0	17,696	0.07%
VAF-I-B	51,878	51,878	0	51,878	0	51,878	0.21%
VVI-LLC	0	0	1,050,940	0	1,050,940	1,050,940	4.21%
BGA	0	0	1,050,940	0	1,050,940	1,050,940	4.21%
SDC	49,586	49,586	1,050,940	49,586	1,050,940	1,100,526	4.40%
RAJ	0	0	1,050,940	0	1,050,940	1,050,940	4.21%
WJL	0	0	1,050,940	0	1,050,940	1,050,940	4.21%
DBM	0	0	1,050,940	0	1,050,940	1,050,940	4.21%
BNL	0	0	1,050,940	0	1,050,940	1,050,940	4.21%
RBR	0	0	1,050,940	0	1,050,940	1,050,940	4.21%

(1) VVI-LLC serves as the general partner of VVC-I, VSF-I, VAF-I-A, and VAF-I-B and owns no securities of the Issuer directly. BGA, SDC, RAJ, WJL, DBM, BNL and RBR are directors and/or members of VVI-LLC. None of BGA, SDC, RAJ, WJL, DBM, BNL and RBR owns no securities of the Issuer directly except as otherwise set forth above.

(2) This percentage is calculated based upon 24,989,328 shares of the Issuer s common stock outstanding as of October 31, 2012 as set forth in the Issuer s most recent 10-Q filed with the Securities and Exchange Commission on November 9, 2012.

Item 5. Ownership of 5 Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following x.

Item 6. Ownership of More than 5 Percent on Behalf of Another Person

N/A.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Not applicable

Item 8. Identification and Classification of Members of the Group

Not applicable

Item 9. Notice of Dissolution of a Group

Not applicable

Item 10. **Certification**

Not applicable

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 7, 2013

Versant Affiliates Fund I-A, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Affiliates Fund I-B, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Side Fund I, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Venture Capital I, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Ventures I, LLC

By: /s/ Robin L. Praeger
Authorized Representative

/s/ Robin L. Praeger as attorney in fact

Brian G. Atwood

/s/ Robin L. Praeger as attorney in fact
Samuel D. Colella

/s/ Robin L. Praeger as attorney in fact
Ross A. Jaffe

/s/ Robin L. Praeger as attorney in fact
William J. Link

/s/ Robin L. Praeger as attorney in fact
Donald B. Milder

/s/ Robin L. Praeger as attorney in fact
Rebecca B. Robertson

/s/ Robin L. Praeger as attorney in fact
Barbara N. Lubash

EXHIBIT A

JOINT FILING STATEMENT

We, the undersigned, hereby express our agreement that the attached Schedule 13G (or any amendments thereto) related to the Common Stock of Fluidigm Corporation is filed on behalf of each of us.

Dated: February 7, 2013

Versant Affiliates Fund I-A, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Affiliates Fund I-B, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Side Fund I, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Venture Capital I, L.P.

By: Versant Ventures I, LLC
Its: General Partner

By: /s/ Robin L. Praeger
Authorized Representative

Versant Ventures I, LLC

By: /s/ Robin L. Praeger
Authorized Representative

/s/ Robin L. Praeger as attorney in fact
Brian G. Atwood

/s/ Robin L. Praeger as attorney in fact
Samuel D. Colella

/s/ Robin L. Praeger as attorney in fact
Ross A. Jaffe

/s/ Robin L. Praeger as attorney in fact
William J. Link

/s/ Robin L. Praeger as attorney in fact
Donald B. Milder

/s/ Robin L. Praeger as attorney in fact
Rebecca B. Robertson

/s/ Robin L. Praeger as attorney in fact
Barbara N. Lubash