ILLUMINA INC Form SC 13G/A February 13, 2008

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

#### SCHEDULE 13G

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

# **ILLUMINA INC**

(Name of Issuer)

### COMMON STOCK

(Title of Class of Securities)

#### 452327109

(CUSIP Number)

### **DECEMBER 31, 2007**

(Date of Event Which Requires Filing of this Statement)

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

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

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).

<sup>\*</sup>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.

# CUSIP No. 452327109

1.	Names of Reporting Persons Sectoral Asset Management Inc.			
2.	Check the Appropria (a) (b)	ate Box if a Member of a C o o	Group (See Instructions)	
3.	SEC Use Only			
4.	Citizenship or Place of Organization Canada			
	5.		Sole Voting Power 2,081,569	
Number of Shares Beneficially Owned by	6.		Shared Voting Power -0-	
Each Reporting Person With	7.		Sole Dispositive Power 2,224,359	
	8.		Shared Dispositive Power -0-	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 2,224,359			
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) $4.0\%$			
12.	Type of Reporting Po	erson (See Instructions)		

2

# CUSIP No. 452327109

1.	Names of Reporting Persons Jérôme G. Pfund				
2.	Check the Appropriate Box if (a) (b)	a Member of a Group (See o o	Instructions)		
3.	SEC Use Only				
4.	Citizenship or Place of Organization Swiss				
	5.		Sole Voting Power 2,081,569		
Number of Shares Beneficially Owned by Each Reporting Person With	6.		Shared Voting Power -0-		
	7.		Sole Dispositive Power 2,224,359		
	8.		Shared Dispositive Power -0-		
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 2,224,359				
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) $4.0\%$				
12.	Type of Reporting Person (See IN	e Instructions)			
		3			

# CUSIP No. 452327109

1.	Names of Reporting Persons Michael L. Sjöström			
2.	Check the Appropriate Bo (a) (b)	x if a Member of a Group (So o o	ee Instructions)	
3.	SEC Use Only			
4.	Citizenship or Place of Organization Swiss			
	5.		Sole Voting Power 2,081,569	
Number of Shares Beneficially Owned by	6.		Shared Voting Power -0-	
Each Reporting Person With	7.		Sole Dispositive Power 2,224,359	
	8.		Shared Dispositive Power -0-	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 2,224,359			
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) $4.0\%$			
12.	Type of Reporting Person (See Instructions) IN			

# CUSIP No. 452327109

Item 1.	(a)	Name of Issuer		
	(a)	Illumina Inc.		
	(b)	Address of Issuer s Principal	Executive Offices	
		9885 Towne Centre Drive, Su	ite 200, San Diego, CA 92121, USA	
Item 2.				
item 2.	(a)	Name of Person Filing		
	. ,	Sectoral Asset Management In	nc.	
		Jérôme G. Pfund		
		Michael L. Sjöström		
	(b)	Address of Principal Business Office or, if none, Residence		
		The principal business address of each person filing is:		
		2120 1000 Sharbrooka St. Wa	est Montreal PQ H3A 3G4 Canada	
	(c)	Citizenship	sst Montical I Q 113A 304 Canada	
		Sectoral Asset Management Inc. is a Canadian corporation		
		Jérôme G. Pfund is a Swiss cir	tizen	
		Michael L. Sjöström is a Swiss citizen		
	(d)	Title of Class of Securities		
	(-)	CHEID Name and		
	(e)	CUSIP Number 452327109		
Item 3.	If this statement is fi	led pursuant to §§240.13d-1(l	b) or 240.13d-2(b) or (c), check whether the person filing is a:	
	(a)	0	Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).	
	(b)	0	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).	
	(c)	0	Insurance company as defined in section 3(a)(19) of the Act (15	
	(d)	0	U.S.C. 78c).  Investment company registered under section 8 of the Investment	
	(u)	0	Company Act of 1940 (15 U.S.C. 80a-8).	
	(e)	X	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);	
	(f)	0	An employee benefit plan or endowment fund in accordance with	
	(g)	v	§240.13d-1(b)(1)(ii)(F); A parent holding company or control person in accordance with	
	(g)	X	\$240.13d-1(b)(1)(ii)(G);	
	(h)	0	A savings association as defined in Section 3(b) of the Federal	
	(i)	0	Deposit Insurance Act (12 U.S.C. 1813); A church plan that is excluded from the definition of an investment	
	(1)	0	company under section 3(c)(14) of the Investment Company Act of	
			1940 (15 U.S.C. 80a-3);	
	(j)	0	Group, in accordance with §240.13d-1(b)(1)(ii)(J).	
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CUSIP No. 452327109

#### 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.

Sectoral Asset Management Inc, in its capacity as an investment adviser, has the sole right to dispose of or vote the number of shares of common stock of the Issuer set forth in this filing. Jérôme G. Pfund and Michael L. Sjöström are the sole shareholders of Sectoral Asset Management Inc. Sectoral Asset Management, Inc. and Messrs. Pfund and Sjöström disclaim beneficial ownership of the Issuer s common stock held by Sectoral Asset Management Inc.

(a) Amount beneficially owned:

Sectoral Asset Management Inc.: 2,224,359 shares

Jérôme G. Pfund: 2,224,359 shares Michael L. Sjöström: 2,224,359 shares

(b) Percent of class:

Sectoral Asset Management Inc.: 4.0%

Jérôme G. Pfund: 4.0% Michael L. Sjöström: 4.0%

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote

Sectoral Asset Management Inc.: 2,081,569 shares

Jérôme G. Pfund: 2,081,569 shares

Michael L. Sjöström: 2,081,569 shares ot applicable

(ii) Shared power to vote or to direct the vote Sectoral Asset Management Inc.: -0- shares

Jérôme G. Pfund: -0- shares

Michael L. Sjöström: -0- shares

(iii) Sole power to dispose or to direct the disposition of

Sectoral Asset Management Inc.: 2,224,359 shares

Jérôme G. Pfund: 2,224,359 shares Michael L. Sjöström: 2,224,359 shares

(iv) Shared power to dispose or to direct the disposition of

Not applicable.

#### Item 5. Ownership of Five 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 five percent of the class of securities, check the following X.

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

Various persons, as investment advisory clients of Sectoral Asset Management, Inc., have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the common stock of the Issuer. To the knowledge of Sectoral Asset Management, Inc., no one such person s interest in the common stock of the Issuer is more than five percent of the total outstanding common stock of the Issuer.

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 Group

Not applicable.

CUSIP No. 452327109

Item 10.

#### Certification

By signing below the undersigned each certifies that, to the best knowledge and belief of the undersigned, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

### **SIGNATURE**

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

Dated: February 11, 2008 SECTORAL ASSET MANAGEMENT INC.

/s/ Jérôme G. Pfund

By: Jérôme G. Pfund

Its: CEO

Dated: February 11, 2008 /s/ Jérôme G. Pfund

Jérôme G. Pfund

Dated: February 11, 2008 /s/ Michael L. Sjöström

Michael L. Sjöström

7

SIGNATURE 8

CUSIP No. 452327109

Exhibit A

### **AGREEMENT**

Each of the undersigned, pursuant to Rule 13d-1(k)(l) under the Securities Exchange Act of 1934, as amended, hereby agrees that only one statement containing the information required by Schedule 13G needs be filed with respect to the ownership by each of the undersigned of the shares of common stock of Illumina Inc., and that the Schedule 13G to which this Agreement is appended as  $\underline{\text{Exhibit A}}$  is to be filed with the Securities and Exchange Commission on behalf of each of the undersigned on or about the date hereof.

EXECUTED as a sealed instrument this 11th day of February 2008.

SECTORAL ASSET MANAGEMENT INC.

/s/ Jérôme G. Pfund

By: Jérôme G. Pfund

Its: CEO

/s/ Jérôme G. Pfund Jérôme G. Pfund

/s/ Michael L. Sjöström Michael L. Sjöström

8