ILLUMINA INC Form SC 13G/A February 14, 2006

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULE 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2

(AMENDMENT NO. 4)*

Illumina, Inc.

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities)

45232710

(CUSIP Number)

DECEMBER 31, 2005

(Date of Event Which Requires Filing of this Statement)

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

[_]	Rule	13d-1(b)
[_]	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).

Page 1 of 9 Pages

SCHEDULE 13G

- Item 1(a). NAME OF ISSUER: Illumina, Inc. (the "Issuer").
- Item 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES: 9885 Towne Center Dr., San Diego, CA 92121.
- Item 2(a). NAMES OF PERSONS FILING: ARCH Venture Fund III, L.P. ("ARCH Venture Fund III"); ARCH Venture Partners, L.L.C. ("AVP LLC") (collectively, the "Reporting Entities") and Steven Lazarus, Keith Crandell, Robert Nelsen and Clinton Bybee (collectively, the "Managing Directors" and individually, each a "Managing Director"). The Reporting Entities and the Managing Directors collectively are referred to as the "Reporting Persons".
- Item 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE: 8725
 W. Higgins Road, Suite 290, Chicago, IL 60631.
- Item 2(c). CITIZENSHIP: ARCH Venture Fund III is a limited partnership organized under the laws of the State of Delaware. AVP LLC is a limited liability company organized under the laws of the State of Delaware. Each Managing Director is a US citizen.
- Item 2(d). TITLE OF CLASS OF SECURITIES: Common Stock, \$.01 par value (the "Common Stock").
- Item 2(e). CUSIP NUMBER: 45232710
- Item 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13D-1(B), OR 13D-2(B) OR (C), CHECK WHETHER THE PERSON FILING IS A:

None.

Item 4. OWNERSHIP.

Each Reporting Person has ceased to own beneficially more than five percent (5%) of the outstanding Common Stock of the Issuer.

Item 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS.

Not Applicable.

Item 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON.

Not Applicable.

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.

Page 2 of 9 Pages

CUSIP No. 45	232710	13G	
			Persons expressly disclaim 1 in Rule 13d-1(b)(ii)(J).
Item 9.	NOTICE OF DISSOLUTION O	F GROUP.	
	Not Applicable.		
Item 10.	CERTIFICATION.		
	Not Applicable. This sto pursuant to Rule 13d-1()		on Schedule 13G is not filed Rule 13d-1(c).
	Page 3	of 9 Pa	ges
CUSIP No. 45	232710	13G	Page 4 of 9 Pages
	SI	GNATURES	
			best of my knowledge and belief, I s statement is true, complete and
Dated: Febru	ary 13, 2006		
		ARCH	VENTURE FUND III, L.P.
		By:	ARCH Venture Partners, L.L.C. its General Partner
			Ву: *
			Steven Lazarus Managing Director
		ARCH	VENTURE PARTNERS, L.L.C.
		By:	*
			Steven Lazarus Managing Director
			*

Steven Lazarus

Keith Crandell * _____ Robert Nelsen * _____ Clinton Bybee *By: /S/ MARK MCDONNELL _____ Mark McDonnell as Attorney-in-Fact _____ This Schedule 13G was executed by Mark McDonnell pursuant to Powers of Attorney attached hereto as Exhibit 2 and incorporated herein by reference. Page 4 of 9 Pages _____ _____ CUSIP No. 45232710 13G Page 5 of 9 Pages

* _____

EXHIBIT 1

AGREEMENT

Pursuant to Rule 13d-1-(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of shares of stock of Illumina, Inc.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original.

Dated: February 13, 2006

ARCH VENTURE FUND III, L.P.

By: ARCH Venture Partners, L.L.C. its General Partner

By:

* -----Steven Lazarus Managing Director

ARCH VENTURE PARTNERS, L.L.C.

* By: _____

Steven Lazarus Managing Director

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		*	
		Steven Lazarus	
		*	
		Keith Crandell	
		*	
		Robert Nelsen	
		*	
		Clinton Bybee	
*By: /S/ MARK MCDONNELL			
Mark McDonnell as Attorne	≥y-in-Fact		
	Page 5 of 9 Pages		
 CUSIP No. 45232710	13G	 Page 6 of 9 Pages	
	Page 6 of 9 Pages		
CUSIP No. 45232710	13G	Page 7 of 9 Pages	
		EXHIBIT 2	
	POWERS OF ATTORNE	Y	
appears below hereby constitut attorney-in-fact, with full po- instruments, certificates and appropriate to be executed on capacity as a general partner of the Securities Exchange Act and all regulations promulgate exhibits thereto, and any othe Securities and Exchange Commiss	tes and appoints Ma ower of substitutio documents that may behalf of himself of any partnership t of 1934, as amend ed thereunder, and er documents in con ssion, and with any	be necessary, desirable or as an individual or in his b, pursuant to Sections 13 and 16 led (the "Exchange Act"), and any to file the same, with all	

exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the By-laws of the National Association of Securities Dealers, Inc., granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate, fully to all intents and purposes as he might or could do in person, thereby ratifying and confirming all that said attorney-in-fact, or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the

12th day of February, 2001. ARCH VENTURE FUND II, L.P. By: ARCH Management Partners II, L.P. its General Partner By: ARCH Venture Partners, L.P. its General Partner By: ARCH Venture Corporation its General Partner By: /S/ STEVEN LAZARUS _____ Managing Director ARCH II PARALLEL FUND, L.P. By: ARCH Management Partners II, L.P. its General Partner By: ARCH Venture Partners, L.P. its General Partner By: ARCH Venture Corporation its General Partner By: /S/ STEVEN LAZARUS _____ Managing Director Page 7 of 9 Pages _____ _____ CUSIP No. 45232710 13G Page 8 of 9 Pages _____ _____ ARCH MANAGEMENT PARTNERS II, L.P. By: ARCH Venture Partners, L.P. its General Partner By: ARCH Venture Corporation its General Partner By: /S/ STEVEN LAZARUS _____ Managing Director ARCH VENTURE PARTNERS, L.P. By: ARCH Venture Corporation its General Partner By: /S/ STEVEN LAZARUS _____ Managing Director

ARCH VENTURE CORPORATION

By: /S/ STEVEN LAZARUS Managing Director

ARCH VENTURE FUND III, L.P.

- By: ARCH Venture Partners, L.L.C. its General Partner

ARCH VENTURE PARTNERS, L.L.C.

By: /S/ STEVEN LAZARUS

Steven Lazarus Managing Director

Page 8 of 9 Pages

CUSIP No. 45232710

13G

Page 9 of 9 Pages

Robert Nelsen

/S/ CLINTON BYBEE

Clinton Bybee

Page 9 of 9 Pages