SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT

TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED

PURSUANT TO RULE 13d-2(b)

(Amendment No. 3)*

Illumina, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

Edgar Filing: ILLUMINA INC - Form SC 13G/A

452327109

(CUSIP Number)

December 31, 2003

(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).

CUSIP No. <u>45232</u>	13 G	Page 2 of 23 Page
1 NAME OF R	REPORTING PERSON	
S.S. OR I.R.S	S. IDENTIFICATION NO. OF ABOVE PERSON	
Venrock A	issociates	
I.R.S. #13-	-6300995	
2 CHECK THI	E APPROPRIATE BOX IF A MEMBER OF A GROUP*	
		(a) x
		(b) "
3 SEC USE ON	NLY	
4 CITIZENSH	IP OR PLACE OF ORGANIZATION	
New York	, U.S.A.	
	5 SOLE VOTING POWER	
NUMBER OF	0	
SHARES	6 SHARED VOTING POWER	
BENEFICIALLY		
OWNED BY	554,107	
	7 SOLE DISPOSITIVE POWER	
EACH		
EACH REPORTING		
	0	

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

1.7%

12 TYPE OF REPORTING PERSON*

PN

CUSIP No. <u>452327</u>	7 109 13 G	Page 3 of 23 Page
1 NAME OF R	EPORTING PERSON	
S.S. OR I.R.S	. IDENTIFICATION NO. OF ABOVE PERSON	
Venrock As	ssociates II, L.P.	
I.R.S. #13-3	3844754	
2 CHECK THE	APPROPRIATE BOX IF A MEMBER OF A GROUP*	
		(a) x
		(b) "
3 SEC USE ON	LY	
4 CITIZENSHI	P OR PLACE OF ORGANIZATION	
New York,	U.S.A.	
	5 SOLE VOTING POWER	
NUMBER OF	0	
SHARES	6 SHARED VOTING POWER	
BENEFICIALLY		
OWNED BY	753,587	
EACH	7 SOLE DISPOSITIVE POWER	
REPORTING		
	0	
PERSON		

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

2.3%

12 TYPE OF REPORTING PERSON*

PN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 4 of 23 Page
1 NAME OF RE	EPORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF A	BOVE PERSON	
Michael C.	Brooks		
2 CHECK THE	APPROPRIATE BOX IF A ME	EMBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHI	P OR PLACE OF ORGANIZAT	ION	
U.S.A.			
	5 SOLE VOTING POWER	<u>.</u>	
NUMBER OF	2,555		
SHARES	6 SHARED VOTING POW	VER	
BENEFICIALLY			
OWNED BY	1,307,694		
EACH	7 SOLE DISPOSITIVE PC	WER	
REPORTING			
PERSON	2,555		
WITH	8 SHARED DISPOSITIVE	POWER	
	1,307,694		

1,310,249

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 5 of 23 Pages
1 NAME OF RE	PORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AE	BOVE PERSON	
Joseph E. C	asey		
2 CHECK THE	APPROPRIATE BOX IF A ME	MBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHII	POR PLACE OF ORGANIZATI	ION	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	661		
SHARES	6 SHARED VOTING POW	ER	
BENEFICIALLY			
OWNED BY	0		
EACH	7 SOLE DISPOSITIVE PO	WER	
REPORTING			
PERSON	661		
WITH	8 SHARED DISPOSITIVE	POWER	
	0		

661

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 6 of 23 Page
1 NAME OF RE	PORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AB	OVE PERSON	
Eric S. Cop	eland		
2 CHECK THE	APPROPRIATE BOX IF A MEN	IBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHI	POR PLACE OF ORGANIZATI		
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	730		
SHARES	6 SHARED VOTING POWE	ER	
BENEFICIALLY			
OWNED BY	1,307,694		
EACH	7 SOLE DISPOSITIVE POW	VER	
REPORTING			
PERSON	730		
WITH	8 SHARED DISPOSITIVE I	'OWER	
	1,307,694		

1,308,424

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 7 of 23 Page
1 NAME OF RE	EPORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AE	OVE PERSON	
Anthony B.	Evnin		
2 CHECK THE	APPROPRIATE BOX IF A ME	MBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHI	P OR PLACE OF ORGANIZATI	ON	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	26,201		
SHARES	6 SHARED VOTING POW	ER	
BENEFICIALLY			
OWNED BY	1,307,694		
EACH	7 SOLE DISPOSITIVE PO	WER	
REPORTING			
PERSON	26,201		
WITH	8 SHARED DISPOSITIVE	POWER	
	1,307,694		

1,333,895

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.1%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 8 of 23 Page
1 NAME OF R	EPORTING PERSON		
S.S. OR I.R.S	IDENTIFICATION NO. OF ABO	OVE PERSON	
Thomas R.	Frederick		
2 CHECK THE	APPROPRIATE BOX IF A MEM	BER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHI	POR PLACE OF ORGANIZATIO	N	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	0		
SHARES	6 SHARED VOTING POWE	R	
BENEFICIALLY			
OWNED BY	1,183		
EACH	7 SOLE DISPOSITIVE POW	ER	
REPORTING			
PERSON	0		
WITH	8 SHARED DISPOSITIVE P	OWER	
	1 1 9 2		

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 9 of 23 Pages
1 NAME OF RE	PORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AB	OVE PERSON	
Terence J. C	Sarnett		
2 CHECK THE	APPROPRIATE BOX IF A ME	MBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHI	OR PLACE OF ORGANIZATI	ON	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	0		
SHARES	6 SHARED VOTING POW	ER	
BENEFICIALLY			
OWNED BY	320		
EACH	7 SOLE DISPOSITIVE PO	VER	
REPORTING			
PERSON	0		
WITH	8 SHARED DISPOSITIVE	POWER	
	320		

320

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 10 of 23 Page
1 NAME OF RE	PORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF ABO	OVE PERSON	
David R. Ha	athaway		
2 CHECK THE	APPROPRIATE BOX IF A MEM	IBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHII	OR PLACE OF ORGANIZATIO)N	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	26,838		
SHARES	6 SHARED VOTING POWE	R	
BENEFICIALLY			
OWNED BY	3,000		
EACH	7 SOLE DISPOSITIVE POW	ÆR	
REPORTING			
PERSON	26,838		
WITH	8 SHARED DISPOSITIVE P	OWER	
	3,000		

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.1%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 11 of 23 Page
1 NAME OF RE	EPORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AB	OVE PERSON	
Bryan E. Ro	oberts		
2 CHECK THE	APPROPRIATE BOX IF A ME	MBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHII	P OR PLACE OF ORGANIZATI	ON	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	11,420		
SHARES	6 SHARED VOTING POW	ER	
BENEFICIALLY			
OWNED BY	1,307,694		
EACH	7 SOLE DISPOSITIVE POV	WER	
REPORTING			
PERSON	11,420		
WITH	8 SHARED DISPOSITIVE	POWER	
	1,307,694		

1,319,114

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 12 of 23 Page
1 NAME OF RE	EPORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AB	OVE PERSON	
Ray A. Rot	nrock		
2 CHECK THE	APPROPRIATE BOX IF A MEI	MBER OF A GROUP*	
			(a) x
			(b)
3 SEC USE ON	LY		
4 CITIZENSHII	P OR PLACE OF ORGANIZATI	ON	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	21,925		
SHARES	6 SHARED VOTING POW	ER	
BENEFICIALLY			
OWNED BY	1,307,694		
EACH	7 SOLE DISPOSITIVE PO	WER	
REPORTING			
PERSON	21,925		
WITH	8 SHARED DISPOSITIVE	POWER	
	1,307,694		

1,329,619

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 13 of 23 Page
1 NAME OF RE	EPORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AI	BOVE PERSON	
Anthony Su	n		
2 CHECK THE	APPROPRIATE BOX IF A ME	MBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHII	P OR PLACE OF ORGANIZAT	ION	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	37,665		
SHARES	6 SHARED VOTING POW	/ER	
BENEFICIALLY			
OWNED BY	1,307,694		
EACH	7 SOLE DISPOSITIVE PO	WER	
REPORTING			
PERSON	37,665		
WITH	8 SHARED DISPOSITIVE	POWER	
	1,307,694		

1,345,359

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.1%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. <u>452327</u>	<u>109</u>	13 G	Page 14 of 23 Pages
1 NAME OF RE	EPORTING PERSON		
S.S. OR I.R.S.	IDENTIFICATION NO. OF AB	OVE PERSON	
Michael F.	Tyrrell		
2 CHECK THE	APPROPRIATE BOX IF A MEN	/IBER OF A GROUP*	
			(a) x
			(b) "
3 SEC USE ON	LY		
4 CITIZENSHII	P OR PLACE OF ORGANIZATI	ON	
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	6,298		
SHARES	6 SHARED VOTING POW	ER	
BENEFICIALLY			
OWNED BY	1,307,694		
EACH	7 SOLE DISPOSITIVE POV	VER	
REPORTING			
PERSON	6,298		
WITH	8 SHARED DISPOSITIVE	POWER	
	1,307,694		

1,313,992

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.0%

12 TYPE OF REPORTING PERSON*

IN

CUSIP No. 452327109

13 G

Introductory Note: This Statement on Schedule 13G is filed on behalf of Venrock Associates, a limited partnership organized under the laws of the State of New York, Venrock Associates II, L.P., a limited partnership organized under the laws of the State of New York, Michael C. Brooks, Joseph E. Casey, Eric S. Copeland, Anthony B. Evnin, Thomas R. Frederick, Terence J. Garnett, David R. Hathaway, Bryan E. Roberts, Ray A. Rothrock, Anthony Sun and Michael F. Tyrrell in respect of shares of Common Stock of Illumina, Inc.

Item 1(a)	Name of Issuer					
	Illumina, Inc.					
<u>Item 1(b)</u>	Address of Issuer s Principal Executi	ve Offices				
	9885 Towne Centre Drive, Suite 200					
	San Diago, CA 02121					
L 2()	San Diego, CA 92121					
<u>Item 2(a)</u>						
	Venrock Associates (Venrock)					
	Venrock Associates II, L.P. (Venrock II)					
	Michael C. Brooks					
	Joseph E. Casey					
	Eric S. Copeland					
	Anthony D. Evnin					
	Anthony B. Evnin					
	Thomas R. Frederick					
	Terence J. Garnett					
	David R. Hathaway					
	Bryan E. Roberts					
	Derr A. Dethue de					
	Ray A. Rothrock					
	Anthony Sun					
	Michael F. Tyrrell					
Item 2(b)	Address of Principal Business Office	or if none Residence				
<u>Item 2(0)</u>	New York Office:	Menlo Park Office:	Cambridge Office:			
			-			
	30 Rockefeller Plaza	2494 Sand Hill Road	One Canal Park			
	Room 5508	Suite 200	Suite 1120			
	New York NV 10112	Manlo Dark CA 04025	Cambridge MA 02142			
	New York, NY 10112	Menlo Park, CA 94025	Cambridge, MA 02142			

Item 2(c) Citizenship

Venrock and Venrock II are limited partnerships organized in the State of New York. Michael C. Brooks, Eric S. Copeland, Anthony B. Evnin, Bryan E. Roberts, Ray A. Rothrock, Anthony Sun and Michael F. Tyrrell are

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General Partners of Venrock and Venrock II and are all citizens of the United States of America. Joseph E. Casey, Thomas R. Frederick, Terence J. Garnett and David R. Hathaway are retired General Partners of Venrock and Venrock II and are citizens of the United States of America.

Item 2(d) Title of Class of Securities

Common Stock

Item 2(e) CUSIP Number

452327109

Item 3 Not applicable.

31

CUSIP No. <u>452327109</u>

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Item 4 Ownership

(a) and (b)

Venrock beneficially owns 554,107 shares or 1.7% of the outstanding shares of common stock. Venrock II beneficially owns 753,587 shares or 2.3% of the outstanding shares of common stock.

Michael C. Brooks beneficially owns 1,310,249 shares or 4.0% of the outstanding shares of common stock. Joseph E. Casey beneficially owns 661 shares or 0.0% of the outstanding shares of common stock. Eric S. Copeland beneficially owns 1,308,424 shares or 4.0% of the outstanding shares of common stock. Anthony B. Evnin beneficially owns 1,333,895 shares or 4.1% of the outstanding shares of common stock. Thomas R. Frederick beneficially owns 1,183 shares or 0.0% of the outstanding shares of common stock. Thomas R. Frederick beneficially owns 320 shares or 0.0% of the outstanding shares of common stock. Terence J. Garnett beneficially owns 320 shares or 0.0% of the outstanding shares of common stock. David R. Hathaway beneficially owns 29,838 shares or 0.1% of the outstanding shares of common stock. Bryan E. Roberts beneficially owns 1,319,114 shares or 4.0% of the outstanding shares of common stock. Anthony Sun beneficially owns 1,345,359 shares or 4.1% of the outstanding shares of common stock. Michael F. Tyrrell beneficially owns 1,313,992 shares or 4.0% of the outstanding shares of common stock.

(c)

Venrock has sole voting and dispositive power over no shares of common stock and shared voting and dispositive power over 554,107 shares of common stock. Venrock II has sole voting and dispositive power over no shares of common stock and shared voting and dispositive power over 753,587 shares of common stock.

Michael C. Brooks has sole voting and dispositive power over 2,555 shares of common stock and shared voting and dispositive power over 1,307,694 shares of common stock. Joseph E. Casey has sole voting and dispositive power over 661 shares of common stock and shared voting and dispositive power over no shares of common stock. Eric S. Copeland has sole voting and dispositive power over 730 shares of common stock and shared voting and dispositive power over 1,307,694 shares of common stock. Anthony B. Evnin has sole voting and dispositive power over 26,201 shares of common stock and shared voting and dispositive power over 1,307,694 shares of common stock. Thomas R. Frederick has sole voting and dispositive power over no shares of common stock and shared voting and dispositive power over 1,183 shares of common stock. Terence J. Garnett has sole voting and dispositive power over no shares of common stock and shared voting and dispositive power over 320 shares of common stock. David R. Hathaway has sole voting and dispositive power over 26,838 shares of common stock and shared voting and dispositive power over 3,000 shares of common stock. Bryan E. Roberts has sole voting and dispositive power over 11,420 shares of common stock and shared voting and dispositive power over 1,307,694 shares of common stock. Ray A. Rothrock has sole voting and dispositive power over 21,925 shares of common stock and shared voting and dispositive power over 1,307,694 shares of common stock. Anthony Sun has sole voting and dispositive power over 37,665 shares of common stock and shared voting and dispositive power over 1,307,694 shares of common stock. Michael F. Tyrrell has sole voting and dispositive power over 6,298 shares of common stock and shared voting and dispositive power over 1,307,694 shares of common stock.

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.

CUSIP N	o. <u>452327109</u>	13 G	Page 17 of 23 Pages
Item 6	Ownership of More than Five Percent on Behalf of Anoth	er Person	
	No person, other than the General Partners of Venrock an direct the receipt of dividends from, or the proceeds from Venrock and Venrock II.		
<u>Item 7</u>	Identification and Classification of the Subsidiary which A Holding Company	Acquired the Security Being Reported on by the Pare	ent
	Not applicable.		
Item 8	Identification and Classification of Members of the Group	2	
	This schedule is being filed pursuant to Rule 13d-1(d). The and Venrock II and the four retired General Partners of Venrock II and the four retired General Partners of Venrock II.		k
Item 9	Notice of Dissolution of Group		
	Not applicable.		
<u>Item 10</u>	Certification		
	Not applicable.		

CUSIP No. <u>452327109</u> 13 G 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.

February 13, 2004	VENROCK ASSOCIATES
	By: /s/ Anthony Sun
	Anthony Sun
	Managing General Partner
February 13, 2004	VENROCK ASSOCIATES II, L.P.
	By: /s/ Anthony Sun
	Anthony Sun
	Managing General Partner
February 13, 2004	GENERAL PARTNERS
	*
	Michael C. Brooks
	*
	Joseph E. Casey
	*
	Eric S. Copeland
	*
	Anthony B. Evnin
	*
	Thomas R. Frederick
	/s/ Terence J. Garnett
	Terence I. Garnett

*

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David R. Hathaway

/s/ Bryan E. Roberts

*

Bryan E. Roberts

Ray A. Rothrock

CUSIP No. 452327109 13 G Page 19 of 23 Pages * Anthony Sun * * Michael F. Tyrrell

* By: /s/ Anthony Sun

Anthony Sun

Attorney-in-Fact

CUSIP No. <u>452327109</u>

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EXHIBIT INDEX

Exhibit No.		Page No.
24.1	Power of Attorney dated as of February 14, 2001 granted by certain of the General Partners/Members in favor of Anthony B. Evnin and Anthony Sun	21
99.1	Agreement pursuant to 13d-1(k)(1) among Venrock Associates, Venrock Associates II, L.P. and the General Partners thereof	22