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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.__)*

Kura Oncology, Inc. (f/k/a Zeta Acquisition Corp. III)

(Name of Issuer)

Common Stock par value \$0.0001 per share (Title of Class of Securities)

50127T 109

(CUSIP Number)

March 6, 2015

(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)

x Rule 13d-1(c)

o 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 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. 50127T 109			13G	Page 2 of 12
1		TINC DED	CONS		
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	ARCH Venture Fund	l VIII, L.P.			
2			BOX IF A MEM	IBER OF A GROUP*	
				(a) o (b) o	
3	SEC USE ONLY				
4	CITIZENSHIP OR F	PLACE OF (ORGANIZATIO	DN	
	Delaware				
		5	SOLE VOT	ING POWER	
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11	PERCENT OF CLA	SS REPRES	ENTED BY AN	MOUNT IN ROW (9)	
	9.3%				
12	TYPE OF REPORTI	NG PERSO	N*		
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CUSIP	No. 50127T 109			13G	[Page 3 of 12
1		TION NOS.	OF ABOVE PI	ERSONS (ENTITIES ONLY)		
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11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.3%					
12	TYPE OF REPORTING PERSON* PN					

CUSIP	No. 50127T 109			13G	Page 4 of 12
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
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	Keith Crandell								
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				(a) o (b) o					
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1	NAMES OF REPO					
	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Clinton Bybee					
2	CHECK THE APPE	ROPRIATE I	BOX IF A MEMBER OF A GROUP*			
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	1,344,937					
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	9.3%					
12	TYPE OF REPORTING PERSON*					

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1		NAMES OF REPORTING PERSONS					
	I.R.S. IDENTIFICAT	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	Robert Nelsen						
2	CHECK THE APPRO	OPRIATE I	3OX IF A MEMBER OF A GROUP*				
			(a) o				
3	SEC USE ONLY		(b) o				
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9	AGGREGATE AMO	OUNT BEN	EFICIALLY OWNED BY EACH REPORTING PERSON				
	1,344,937						
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* o						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
	9.3%						
12	TYPE OF REPORTIN	NG PERSC	N*				
	IN						
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CUSIP No. 5	50127T 109	13G		Page 8 of 12
Item 1(a).	Name of Issuer			
	Inc. (f/k/a Zeta Acquisition Corp. III) ((the "Issuer").		
Item 1(b).	Address of Issuer's Principal Exe	cutive Offices		
11119 N. Torrey	Pines Road, Suite 125, La Jolla, CA 9	2037.		
Item 2(a).	Name of Person Filing			
LLC") (collectiv Bybee ("Bybee"	ely, the "Reporting Entities" and indiv	idually, each a "Reporting Entity"); and Keith Crandel	LP"); ARCH Venture Partners VIII, LLC ("AVP VIII l ("Crandell"), Robert Nelsen ("Nelsen") and Clinton e Reporting Entities and the Managing Directors
Item 2(b).	Address of Principal Business Of	fice or, if none, Residence		
8725 W. Higgins	s Avenue, Suite 290, Chicago, IL 6063	1		
Item 2(c).	Citizenship			
	Fund VIII and AVP VIII LP are limited the laws of the State of Delaware. Eac			Delaware. AVP VIII LLC is a limited liability company
Item 2(d).	Title of Class of Securities			
Common stock,	par value \$0.0001 per share ("Commo	ı Stock").		
Item 2(e).	CUSIP Number			
50127T 109				
Item 3.	If this statement is filed pursuant to	o Rule 13d-1(b), or 13d-2(b) or ((c), Check Whether	the Person Filing is a:
Not Applicable.				
Item 4.	Ownership			
(a)	Amount beneficially owned:			
	as the sole general partner of ARC	H Venture Fund VIII, may be deer ay be deemed to beneficially own	med to beneficially or the Record Shares. <i>A</i>	"Record Shares") as of March 6, 2015. AVP VIII LP, wn the Record Shares. AVP VIII LLC, as the sole As managing directors of AVP VIII LLC, each ote of the Record Shares.
(b)	Percent of class:			
	In the aggregate, the Reporting Per shares of common stock outstandin			of common stock of the Issuer, based upon 14,508,177 suer on March 10, 2015.

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(c)	Number of shares as to which such person has:						
	(i)	Sole power to vote or to direct the vote:					
		0 shares for each Reporting Person					
	(ii)	Shared power to vote or to direct the vote:					
		Each of the Reporting Persons: 1,344,937					
	(iii)	Sole power to dispose or to direct the disposition:					
		0 shares for each Reporting Person					
	(iv)	Shared power to dispose or to direct the disposition:					
		Each of the Reporting Persons: 1,344,937					
Each Reporting P	erson discla	ims beneficial ownership of such shares of Common Stock except for the shares, if any, such Reporting Person holds of record.					
Item 5.	Ownershi	p of Five Percent or Less of a Class					
Not Applicable.							
Item 6.	Ownershi	p of More than Five Percent on Behalf of Another Person					
Not Applicable.							
Item 7.	Identificati	on and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company					
Not Applicable.							
Fr							
Item 8.	Identifica	tion and Classification of Members of the Group					
Not Applicable.							
I	No.dian of						
Item 9.	NOTICE OF	Dissolution of Group					
Not Applicable.							
Item 10.	Certificat	ion					
By signing below	I certify tha	it, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with					

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above 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, other than activities solely in connection with a nomination under §240.14a-11.

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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: March 13, 2015

ARCH VENTURE FUND VIII, L.P.

By: ARCH Venture Partners VIII, L.P. its General Partner

By: ARCH Venture Partners VIII, LLC its General Partner

By: ____

Keith Crandell Managing Director

*

ARCH VENTURE PARTNERS VIII, L.P.

By: ARCH Venture Partners VIII, LLC its General Partner

By: <u>*</u> Keith Crandell Managing Director

ARCH VENTURE PARTNERS VIII, LLC

By: <u>*</u> Keith Crandell Managing Director

Keith Crandell

Robert Nelsen

Clinton Bybee

*

* By: <u>/s/ Mark McDonnell</u> 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.

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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 Kura Oncology, Inc. (f/k/a Zeta Acquisition Corp. III).

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

Dated: March 13, 2015

ARCH VENTURE FUND VIII, L.P.

By: ARCH Venture Partners VIII, L.P. its General Partner

By: ARCH Venture Partners VIII, LLC its General Partner

By: * Keith Crandell Managing Director

ARCH VENTURE PARTNERS VIII, L.P.

By: ARCH Venture Partners VIII, LLC its General Partner

By: <u>*</u> Keith Crandell Managing Director

ARCH VENTURE PARTNERS VIII, LLC

By: <u>*</u> Keith Crandell Managing Director

Keith Crandell

Robert Nelsen

Clinton Bybee

* By: <u>/s/ Mark McDonnell</u> Mark McDonnell as Attorney-in-Fact

This Agreement was executed by Mark McDonnell pursuant to Powers of Attorney attached hereto as Exhibit 2 and incorporated herein by reference.

Exhibit 2

POWERS OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints Mark McDonnell his true and lawful attorney-in-fact, with full power of substitution, to sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his capacity as a direct or indirect general partner, member, director, officer or manager of any partnership, corporation or limited liability company, pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, and 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 Financial Industry Regulatory Authority, 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. This Power of Attorney shall remain in full force and effect with respect to each undersigned person unless and until six months after such person is both no longer a Managing Director of ARCH Venture Partners and no longer serving on the board of directors of any portfolio company of any ARCH Venture Partners fund.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 9th day of March, 2015.

ARCH VENTURE FUND VIII, L.P.

By: ARCH Venture Partners VIII, L.P. its General Partner

By: ARCH Venture Partners VIII, LLC. its General Partner

By: <u>/s/ Keith Crandell</u> Managing Director

ARCH VENTURE PARTNERS VIII, L.P.

By: ARCH Venture Partners VIII, LLC its General Partner

By: <u>/s/ Keith Crandell</u> Managing Director

ARCH VENTURE PARTNERS VIII, LLC

By: <u>/s/ Keith Crandell</u> Managing Director

<u>/s/ Keith Crandell</u> Keith Crandell

<u>/s/ Robert Nelsen</u> Robert Nelsen

/s/ Clinton Bybee

Clinton Bybee

<u>/s/ Kristina Burow</u> Kristina Burow

/s/ Paul Thurk

Paul Thurk