FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     TEPPER ROBERT I						2. Issuer Name <b>and</b> Ticker or Trading Symbol bluebird bio, Inc. [BLUE]							(Check	Relationship of Reporting Person(s) to Issuer (Check all applicable)					
													X	Director			10% Ow	ner	
(Last)	ast) (First) (Middle)						Date of Earliest Transaction (Month/Day/Year)							Officer (g below)	ive title	Other (spe below)		pecify	
C/O THI	RD ROCK	VENTURES, L.	P.		0	06/24/2013													
29 NEWI	BURY STR	EET																	
(Street)					$ \frac{1}{4}$	. If Am	endm	nent, Date of	Original I	Filed	(Month/Day	/Year)	6. Indi	vidual or Joir	nt/Group F	Filing (C	heck Appli	cable Line)	
BOSTON	I M	ΙA	02116										X		•		ng Person Ine Reportii	ng Person	
(City)	(S	tate)	(Zip)		_														
		7	able I - No	on-De	erivat	ive S	Secu	ırities Ac	quired,	, Dis	posed o	f, or Ber	neficially C	Owned					
1. Title of Security (Instr. 3)  2. Trans: Date (Month/L					Execution Date,		3. Transaction Code (Instr. 8)  4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	(A) oi (D)	Price	Reported Transaction (Instr. 3 and	action(s)		(	nstr. 4)			
Common Stock 06/24				24/20	2013		С		4,734,248 <sup>(1)</sup> A		\$0.00	4,734,248			1 1	See ootnote <sup>(2)</sup>			
			Table II					ities Acqı warrants					ficially Ov	vned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	ate,		ansaction de (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerci Expiration Dat (Month/Day/Ye		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)	
				[,	Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	uon(s)			
Series B Convertible Preferred Stock	(3)	06/24/2013			С			64,377,682	(3)		(3)	Common Stock	3,394,194	(3)	0		I	See footnote <sup>(2)</sup>	
Series C Convertible Preferred Stock	(3)	06/24/2013			С			14,379,294	(3)		(3)	Common Stock	758,121	(3)	0		I	See footnote <sup>(2)</sup>	
Series D Convertible Preferred	(3)	06/24/2013			С			11,037,527	(3)		(3)	Common Stock	581,933	(3)	0		I	See footnote <sup>(2)</sup>	

## **Explanation of Responses:**

1. Represents the total number of shares received upon conversion of shares of the Issuer's Series B Convertible Preferred Stock (the "Series B Shares"), Series C Convertible Preferred Stock (the "Series C Shares") and Series D Convertible Preferred Stock (the "Series D Shares" and together with the Series B Shares and the Series C Shares, collectively, the "Preferred Shares").

- 2. The securities are directly held by Third Rock Ventures, L.P. ("TRV LP"). The general partner of TRV LP is Third Rock Ventures GP, LP ("TRV GP"). The general partner of TRV GP, LLC. The Reporting Person is a manager of TRV GP, LLC and disclaims beneficial ownership of all shares except to the extent of his pecuniary interest, if any, therein.
- 3. Effective upon the closing of the Issuer's initial public offering of its Common Stock, each Preferred Share automatically converted at a ratio of 18.967-to-one into the number of shares of Common Stock shown in column 7. The Preferred Shares had no expiration date.

## Remarks:

/s/ Linda C. Bain, Attorney-in-

\*\* Signature of Reporting Person

**Fact** 

06/26/2013

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.