FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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* Cole Jason				2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]						eck all applic	able)	Person(s) to Issu 10% Ov Other (s	vner		
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET				3. Date of Earliest Transaction (Month/Day/Year) 04/01/2014						below)	Secy. & General Counsel		· ·		
(Street) CAMBR (City)	IDGE M	IA	02141 (Zip)	4.	If Ame	endment, [Oate of	f Original File	ed (Month/Da	ay/Year)	6. I Lin	e) <mark>X</mark> Form fil	ed by One R	ling (Check App eporting Persor han One Repor	ı
		Та	ble I - Non-De	erivati	ve Se	curitie	s Acc	quired, D	isposed (of, or Be	neficial	y Owned			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D			е	Execution Da		Date,	3. Transacti Code (Ins	on Dispose	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4		5. Amour Securities Beneficia Owned For Reported	s Form ally (D) o following (I) (In	orm: Direct D) or Indirect) (Instr. 4)	7. Nature of ndirect Beneficial Dwnership Instr. 4)	
							Code V	Amount	(A) o (D)	r Price	Transacti (Instr. 3 a	on(s)		(111501. 4)	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)															
1. Title of Derivative Security (Instr. 3)	or Exercise (Month/Day/Year) if any		Execution Date,	Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		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)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)		
Stock Option (right to buy)	\$22.53	04/01/2014		A		100,000		(1)	02/10/2024	Common Stock	100,000	\$0.00	100,000	D	

Explanation of Responses:

1. This option vests over a four-year period, at a rate of twenty-five percent (25%) on March 6, 2015 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole

04/03/2014

** Signature of Reporting Person

Date

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

- * 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.