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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this ho	x if no longer subject to
Section 16. H	orm 4 or Form 5
obligations m	ay continue. See
Instruction 1(o).

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

OMB APPROVAL OMB Number: 3235-0287

Estimated average burden hours per response: 0.5			
hours per response: 0.5	Estimated average burden		
	hours per response:		0.5

1. Nume and Address of Reporting reison			2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
			,,,	X	Director	10% Owner				
C/O BLUEBIRD BIO, INC. 150 SECOND STREET		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 06/02/2016		Officer (give title below)	Other (specify below)				
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) CAMBRIDGE MA 02141		02141		X	Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	(State)	(Zip)			Person					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)						5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1130.4)
Common Stock ⁽¹⁾	06/02/2016		Α		1,000	Α	\$0.00	1,000	D	

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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Num of Deriva Securi Acquir (A) or Dispos of (D) (Instr. and 5)	tive ties red sed 3, 4	Expiration Da	6. Date Exercisable and Expiration Date (Month/Day/Year) Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$ 47.87	06/02/2016		A		4,000		(2)	06/02/2026	Common Stock	4,000	\$0.00	4,000	D	

Explanation of Responses:

1. These restricted stock units for common stock vest 100% on the earlier of June 2, 2017, or the date of the next annual meeting of stockholders

2. This option vests 100% on the earlier of June 2, 2017, or the date of the next annual meeting of stockholders.

Remarks:

/s/ Jason F. Cole, Attorney-in-06/03/2016

** Signature of Reporting Person Date

<u>Fact</u>

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.