FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washingt

wasnington, D.C. 20549	OMB APPROVAL			
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235-02		

OMB Number:	3235-0287									
Estimated average burden										
hours per response.	0 1									

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

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

1. Name and Address of Reporting Person* <u>Gregory Philip D</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									ck all applic	able)	g Pers	son(s) to Issi 10% Ow Other (s	wner
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.					3. Date of Earliest Transaction (Month/Day/Year) 03/01/2016									below)	below) Chief Scientif		below)	pecity	
150 SECOND STREET, THIRD FLOOR						If Amo	andmont [Data of	Original E	ilod	(Month/Do	6 In	6. Individual or Joint/Group Filing (Check Applicable						
(Street) CAMBRIDGE MA 02141				_ 4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)									X Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	()	State)	(Zip)												Persor				
		Tak	le I - Non	n-Deriv	vativ	e Se	curities	s Acc	uired, [Disp	osed o	f, or B	ene	ficially	y Owned				
1. Title of Security (Instr. 3) 2. Transar Date (Month/Da					ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)			ities Acquired (A) o d Of (D) (Instr. 3, 4 a				es Formally (D) (I) (I		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
									v	Amount	(A) (D)	or	Price	Reported Transact (Instr. 3 a	tion(s)			(Instr. 4)	
Common Stock ⁽¹⁾ 03/01/				1/201	/2016		А		8,000 A \$		\$0.00	0 33,000			D				
		-	Table II - I						ired, Di options						Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution E if any (Month/Day	Date,	Code		of Derivati Securiti Acquire (A) or Dispose of (D) (II	of Ex Derivative (N Securities Acquired		s. 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 (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisable		expiration pate	Title	or Nu of	ımber					
Stock Option (right to	\$50.51	03/01/2016			A		32,000		(2)	0	3/01/2026	Common Stock	32	2,000	\$0.00	32,000)	D	

Explanation of Responses:

- $1. \ Restricted \ stock \ units for \ common \ stock \ vest \ over \ a \ four-year \ period \ at \ a \ rate \ of \ 25\% \ on \ 01/04/2017, 25\% \ on \ 01/04/2018, 25\% \ on \ 01/04/2019, \ and \ 25\% \ on \ 01/04/2020.$
- 2. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2017 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole, Attorney-in-

<u>Fact</u>

** Signature of Reporting Person

Date

03/03/2016

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.