FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
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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

4 11			5 *			2 10	CLIO	Name	nd Tick	or or Tra	dina	Symbol			5	Dolati	ionehii	n of Penortin	na Parson(s) to	lecuer
1. Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>Gregory Philip D</u>								,		-						Direc			Owner	
() () () () () () () () () ()						3 D	3. Date of Earliest Transaction (Month/Day/Year)									X	Officer (give title below)		Othe belo	r (specify w)
(Last) (First) (Middle)						06/15/2015									Chief Scientific Officer					
C/O BLUEBIRD BIO, INC.																				
150 SECOND STREET, THIRD FLOOR				1 If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable						
(0)					· *	4. II Amendment, Date of Original Filed (Month/Day/rear)									Line)					
(Street) CAMBRIDGE MA 02141															X Form filed by One Reporting Person					
- Crivibite						.										Form filed by More than One Reporting Person				
(City)		(Stat	e) (2	Zip)																
			Tabl	e I - Noi	า-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, oı	r Bene	eficia	ally C	Owne	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					ır) l	Execution if any	A. Deemed execution Date, any Month/Day/Year)				ities Acquired (A) d Of (D) (Instr. 3, 4			4 and Se Be		ount of ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
										Code	v	Amount		(A) or (D)	Price	- 1.	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common Stock ⁽¹⁾ 06/15/						5/2015						25,000	0	A \$0.0		.00 25,000		D		
			Та									osed of, onvertib				y Ow	ned			•
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	on [8. Transaction Date Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		of		6. Date E Expiratic (Month/D	on Dat		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3		ivative urity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D) or Indirec (I) (Instr.	Beneficial Ownership (Instr. 4)
						Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nun of	ount nber res					

Explanation of Responses:

1. Restricted stock units for common stock vest over a three-year period at a rate of 33% on June 15, 2016; 33% on June 15, 2017; and 34% on June 15, 2018.

Remarks:

/s/ Jason F. Cole, Attorney-in-06/17/2015

<u>Fact</u>

** 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.