FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	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

1. Name and Address of Reporting Person* Vachon Mark (Last) (First) (Middle)							Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] 3. Date of Earliest Transaction (Month/Day/Year) 06/08/2017									ip of Reporting plicable) ctor eer (give title w)	oorting Person(s) to 10% C title Other below		Owner (specify		
C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person						
(Street)	CAMBRIDGE MA 02142															Form filed by More than One Reporting Person					
(City)	(S	tate) (Zip)																		
		Tab	le I - N	on-Deriv	ative S	Sec	uritie	s A	cquired,	Disp	osed	of, or	Bene	eficia	ally Own	ed	3				
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day/						Exe if a	Deeme cution ny onth/Da	Date,	Transaction Dispos Code (Instr. and 5)			urities Acquired (A) sed Of (D) (Instr. 3,)			Secur	ficially d	6. Owners Form: Dir (D) or Indirect (I	ect	7. Nature of Indirect Beneficial Ownership		
										v	Amou	nt (A) or (D)		Price	Repo Trans		(Instr. 4)		(Instr. 4)		
Common	Stock(1)	2017	017		A		1,0	00	Α	\$0.0	00	2,000	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		if any	emed on Date, /Day/Year)	4. Transac Code (In 8)		on Number		6. Date Exe Expiration (Month/Day		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		r. 3	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	(D) rect	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)	(D)	Date Exercisable		iration e	Title	Am or Nui of Sha								
Stock Option (right to buy)	\$111	06/08/2017			A		4,000		(2)	06/	08/2027	Commo Stock	n 4,0	000	\$0.00	4,000	D				

Explanation of Responses:

- 1. These restricted stock units for common stock vest 100% on the earlier of June 8, 2018, or the date of the next annual meeting of stockholders.
- $2. \ This \ option \ vests \ 100\% \ on \ the \ earlier \ of \ June \ 8, \ 2018, \ or \ the \ date \ of \ the \ next \ annual \ meeting \ of \ stockholders.$

Remarks:

/s/ Jason F. Cole, Attorney-in-Fact 06/12/2017

** 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.