FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	OVAL
	OMB Number:	3235-0287
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l	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(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>Cole Jason</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]										Relationship of Reporting Person (Check all applicable) Director Officer (give title				on(s) to Issuer 10% Owner Other (specify
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 08/08/2018										oelow)		gal O	below)	респу
						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 Form filed by More than One Reporting Person					
(City) (State) (Zip)							tive Securities Acquired, Disposed of, or Beneficially Owned													
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						tion 2A. Deemed Execution Date,			3 e, T	3. 4. Securit Transaction Disposed Code (Instr. 5)			ities Acquired (A) or d Of (D) (Instr. 3, 4 and			Amou ecuritic enefici wned F	int of 6. es Foially (D		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership
										Code V	F	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3		tion(s)			(Instr. 4)
Common Stock 08/08/2						2018				M		4,438 A \$		\$22.	53	21,610			D	
		T	able II -										or Ben ble secu		y Ow	ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	Code (Ir					6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title an Amount o Securities Underlyin Derivative (Instr. 3 an	f g Security	8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exer	e rcisable	Expiration Date		Title	Amount or Number of Shares						
Stock Option (right to buy)	\$22.53	08/08/2018			M			4,438		(1)	02/1	10/2024	Common Stock	4,438	\$0	.00	2,248		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:

<u>/s/ Jason F. Cole</u> <u>08/10/2018</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.