FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFI	CIAL OWNE	RSHIP

	OMB APPRO	DVAL
	OMB Number:	3235-0287
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	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).

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

Name and Address of Reporting Person* Cole Jason						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								Check all	nship of Reportin applicable) birector Officer (give title	p Person(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) 01/07/2019								X Officer (give title below) below) Chief Legal Officer			
(Street) CAMBR (City))2142 Zip)	2	Line) X Form filed by O					Form filed by On	p Filing (Check Applicable ne Reporting Person ore than One Reporting						
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yes				rear)	2A. Deemed Execution Date, if any (Month/Day/Year)		e,	3. 4. Securities Acqui Transaction Code (Instr. 8) 4. Securities Acqui) S B C	Amount of ecurities eneficially wned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount	(A) or (D)	Price	т	eported ransaction(s) nstr. 3 and 4)		(Instr. 4)	
Common	mmon Stock 01/07/2019			19			S	П	928(1)	D	\$113.28	895 ⁽²⁾	20,682	D			
Common	Stock			01/07/20	19				S		488(1)	D	\$114.3	114.306 ⁽³⁾ 20,194 D			
		Та	ble	II - Derivat (e.g., p							posed of, convertib				ed		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	(Month/Day/Year) e of vative	Execution Date, if any		4. Transa Code (8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration D (Month/Day/\)		Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			derivative Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exe	e rcisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

- 1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.
- 2. The range in prices for the transaction reported on this line was \$112.73 to \$113.70. The average weighted price was \$113.2895. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range in prices for the transaction reported on this line was \$114.00 to \$114.72. The average weighted price was \$114.306. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.

Remarks:

/s/ Jason F. Cole

01/09/2019

** 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.