FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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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

1. Name and Address of Reporting Person* Smith-Farrell Joanne						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								Check	tionship of Reporti all applicable) Director Officer (give title		10% C		
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET					3. Date of Earliest Transaction (Month/Day/Year) 10/02/2020								X	below) below) Chief Business Officer					
(Street) CAMBRIDGE MA 02142 (City) (State) (Zip)					4. If <i>F</i>	4. If Amendment, Date of Original Filed (Month/Day/Year)								Indiv ne) X	′				
		Table	I - N	on-Deriva	tive S	Secur	rities	Ac	quire	d, Di	sposed of	, or E	Benefici	ally	Own	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye				rear) l	Execution Date,		·				Acquired (A) or (D) (Instr. 3, 4 a		and 5) Secu Bene		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										v	Amount	(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				(111301. 4)
Common Stock 10/02/202				20				S		38(1)	D \$52.765		5 ⁽²⁾	5(2) 22,013			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)			ution Date,		saction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4) Amoun or Numbe of Title Shares		t		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)		

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 \$52.48 to \$53.09. The average weighted price was \$52.765. 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/ Helen C. Fu, Attorney-in-

10/06/2020

Fact

** 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.

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