FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

check this box if no longer subject to section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See	
Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* Walsh Jeffrey T. (Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]										ationship of Reporting F k all applicable) Director Officer (give title			2erson(s) to Issuer 10% Owner Other (specify		
					06/	3. Date of Earliest Transaction (Month/Day/Year) 06/18/2019										below) below) Chief Strategy Officer				
(Street) CAMBR (City)			02142 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line)	'					
		Tab	le I - No	n-Deriv	ative	Se	curiti	es Ac	quire	l, Dis	sposed	of, or B	enefic	cially	Owne	d				
			2. Transaction Date (Month/Day/Yea		Execution Date,			Code	action (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				es ially Following	Forn (D) c	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) o	Pric	e	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common	Stock			06/18/	/2019				М		100	A	\$2	24.47	41	41,021 D 40,921 D				
Common	Stock			06/18/	/2019				S ⁽¹⁾		100	D	\$1	26.12	40					
		Т	able II -									, or Ber ible sec			wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/D	n Date,	4, Transactior Code (Instr. 8)		n of		6. Date I Expirati (Month/I	n Date		7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		D S (I	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amou or Numb of Share	per						
Stock Option (right to	\$24.47	06/18/2019			M			100	(2)	(03/03/2024	Common Stock	100	0	\$0.00	10,021		D		

Explanation of Responses:

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on July 2, 2018.
- 2. This option vested over a four-year period, at a rate of twenty-five percent (25%) on January 1, 2015 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole, Attorney-in-

06/20/2019

** 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.