FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.C. 20049

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1/h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

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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* Walsh Jeffrey T.						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									eck all applic	able)		son(s) to Iss 10% Ov Other (s	vner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET					02	3. Date of Earliest Transaction (Month/Day/Year) 02/01/2019									Chief Financial / and Strategy Officer					
(Street) CAMBRIDGE MA 02142 (City) (State) (Zip)				_ 4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)			ole I - Nor	n-Deri	vativ	e Se	curities	s Aca	uired. C	Dist	osed o	f. or B	ene	ficiall	v Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					saction	action 2A. Execution 2A.		2A. Deemed Execution Date, f any Month/Day/Year)		3. 4. Secur Dispose Code (Instr. 5)		ities Acquired (A) or d Of (D) (Instr. 3, 4 and			5. Amount of		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) (D)	or	Price	Transaction(s) (Instr. 3 and 4)				(111311.4)	
Common Stock ⁽¹⁾ 02/01/						2019			A		8,438	,438 A S		\$0.00	0 40,921			D		
			Table II -						ired, Di options						Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversior or Exercise Price of Derivative Security		3A. Deemee Execution I if any (Month/Day	Date,	4. Transaction Code (Instr. 8)				5. Date Exe Expiration Month/Day		7. Title and Amoun of Securities Underlying Derivative Security (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	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)		
					Code	v	(A)		Date Exercisable		xpiration late	Title	OI N Of	umber						
Stock Option (right to	\$134.63	02/01/2019		Ì	A		33,750		(2)	0	2/01/2029	Common Stock	3	3,750	\$0.00	33,750)	D		

Explanation of Responses:

- 1. Restricted stock units for common stock vest over a four-year period at a rate of 25% on 01/04/2020, 25% on 01/04/2021, 25% on 01/04/2022, and 25% on 01/04/2023.
- 2. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2020 and in 36 equal monthly installments thereafter.

Remarks:

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

Fact

** Signature of Reporting Person

Date

02/05/2019

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.