FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 06/06/2017								X		er (give title	X	045	(specify	
C/O BLUEBIRD BIO, INC.														Chief Financial / and Strategy Officer						
60 BINNEY STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street)														X	Form	filed by One	Rep	orting Pers	son	
CAMBRIDGE MA 02142														Form filed by More than One Reporting Person						
(City)	(Si	tate) (Zip)																	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year					ear) E	2A. Deemed Execution D if any (Month/Day			3. Transact Code (In 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			and 5) Secur Bene Owne		ficially ed	Forr (D) o	rect (I)	7. Nature of Indirect Beneficial Ownership	
									Code V		Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Insi	tr. 4)	(Instr. 4)	
Common Stock 06/06/2017									M		2,500	A	\$2.08)864		29,805		D		
Common Stock 06/06/2017						ı			S ⁽¹⁾		2,500	D	\$100.0	.054(2)		27,305		D		
		Ta	able	e II - Deriva (e.g., p							posed of convert				vned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe	Deemed cution Date, ıy nth/Day/Year)	4. Trans Code 8)		of Der Sec (A) Dis of (posed			ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Pr of Deri Secu (Inst	vative rity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	F 0 (I 4	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amoun or Numbe of Shares							
Stock Option (right to buy)	\$2.0864	06/06/2017			M			2,500	(3)		07/13/2021	Common Stock	2,500	\$0	0.00	12,736		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 December 23, 2016.
- 2. The range of prices for the transaction reported on this line was \$100.00 to \$100.25. The average weighted price was \$100.0540. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. This option vests over a four-year period, at a rate of twenty-five percent (25%) on May 16, 2012 and in 36 equal monthly installments thereafter.

Remarks:

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

06/08/2017

** 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.