FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL				
	OMB Number:	3235-0287				
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l	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

1. Name ar Walsh (Last) (C/O BLU 60 BINN (Street)	3. t 06.	2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] 3. Date of Earliest Transaction (Month/Day/Year) 06/12/2017 4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director I 0% Owner X Officer (give title X Other (specify below) Chief Financial / and Strategy Officer 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person										
CAMBRIDGE MA 02142 (City) (State) (Zip)					-										Form filed by More than One Reporting Person					
		Tab	le I -	Non-Deri	vative	e Sec	uriti	ies A	cquir	ed, D	isposed (of, or I	Benefici	ially (Owned					
1. Title of S	2. Transacti Date (Month/Day)		Execut (ear) if any		eemed tion Date, n/Day/Year)		ction Instr.	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			Benefici Owned I		ies ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
								Code	v	Amount	(A) or (D)	Price		Transac	Reported Fransaction(s) Instr. 3 and 4)			(Instr. 4)		
Common	Stock)17	7			M		2,500	A	\$2.08	64	29	29,805		D					
Common	Stock	06/12/20	017				S ⁽¹⁾		1,919	D	\$109.26	645 ⁽²⁾	27	7,886		D				
Common Stock 06/12/201						.7					579	D	\$110.41	55 ⁽³⁾ 27		7,307		D		
Common)17	7			S ⁽¹⁾		2	D	\$111	\$111.1		27,305		D						
		Т	able								sposed of				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu if any	eemed ution Date, th/Day/Year)	4. Transa Code (8)			vative urities uired or oosed o) tr. 3, 4	Expir	te Exer ation D th/Day/		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se (In	Price of rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form Direct or Ind (I) (In:	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amour or Number of Shares	er						
Stock Option (right to buy)	\$2.0864	06/12/2017			M			2,500	(4)	07/13/2021	Commo Stock		0	\$0.00	10,236		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 \$108.90 to \$109.75. The average weighted price was \$109.2645. 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. The range of prices for the transaction reported on this line was \$110.05 to \$111.00. The average weighted price was \$110.4155. 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.
- 4. 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-

06/14/2017

Fact

** Signature of Reporting Person

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.