FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washin

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

gton, D.C. 20549	OMB APPROVAL

OMB Number:	3235-0287
Estimated average bur	den
hours por rosponso:	0.6

Check this box if no longer subject to 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

Name and Address of Reporting Person* Walsh Jeffrey T.						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									tionship o all applic Directo	cable)	g Perso	on(s) to Issu 10% Ow	/ner
(Last) C/O BLU 150 SEC		3. Date of Earliest Transaction (Month/Day/Year) 08/10/2015								X Officer (give title below) Other (s below) Chief Operating Officer			pecify						
(Street) CAMBR			02141 (Zip)		If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X					n	
(0.5)			,	Non-Deri	ivativ	e Sec	·urit	ies A	cauir	ed C)isnosed (of or F	Renefic	ially (Owned				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and		I (A) or		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: Direct C	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Reporte Transac (Instr. 3	tion(s)			(Instr. 4)
Common	Stock			08/10/2	015				M		11,000	A	\$2.0	\$2.09		1,000		D	
Common Stock			08/10/2	015				S ⁽¹⁾		4,563	D	\$146.832 ⁽²⁾		6,	,437		D		
Common Stock			08/10/2	015			S ⁽¹⁾		2,234	D	\$147.8906 ⁽³⁾		4,	4,203		D			
Common	Stock			08/10/2	015				S ⁽¹⁾		1,419	D	\$148.7518 ⁽⁴⁾ 2,78		784		D		
Common	Stock			08/10/2	015				S ⁽¹⁾		1,207	D	\$150.2	284(5)	1,	577		D	
Common	Stock			08/10/2	015				S ⁽¹⁾		923	D	\$151.7	085(6)	6	554		D	
Common	Stok			08/10/2	015				S ⁽¹⁾		654	D	\$152.8	654 ⁽⁷⁾		0		D	
		-	Table								sposed of s, converti				wned				
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	emed tion Date, n/Day/Year)	4. Transa Code 8)		of Deri Seco Acq (A) o Disp of (E	umber vative urities uired or oosed O) (Instr	Expir (Mon	ration I	ercisable and Date of Securities Underlying Derivative Secu (Instr. 3 and 4)		urities lying tive Secur	De Se	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exer	cisable	Expiration Date	Title	Amou or Numb of Share	oer					
Stock Option	\$2.09	08/10/2015			M			11,000		(8)	07/13/2021	Comm	on 11.0	00	\$0.00	40,513		D	

Explanation of Responses:

(right to

buy)

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on September 26, 2014.
- 2. The range of prices for the transaction reported on this line was \$146.34 to \$147.31. The average weighted price was \$146.8320. 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 \$147.45 to \$148.25. The average weighted price was \$147.8906. 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. The range of prices for the transaction reported on this line was \$148.66 to \$149.49. The average weighted price was \$148.7518. 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.
- 5. The range of prices for the transaction reported on this line was \$149.81 to \$150.81. The average weighted price was \$150.2840. 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
- 6. The range of prices for the transaction reported on this line was \$151.38 to \$152.36. The average weighted price was \$151.7085. 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.
- 7. The range of prices for the transaction reported on this line was \$152.61 to \$153.00. The average weighted price was \$152.8654. 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.
- 8. 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

Stock

** Signature of Reporting Person

08/12/2015

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 cor	ntained in this form are not requi	red to respond unless the form disp	olays a currently valid OMB Number.