FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549
vvaoriirigiori,	D.O. 20040

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

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours nor resnance	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* <u>Cole Jason</u>																Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET						3. Date of Earliest Transaction (Month/Day/Year) 03/09/2015									Officer below)	(give title	General	Other (sp below)	pecify			
(Street) CAMBR (City)	Street) CAMBRIDGE MA 02141					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
		Tak	ole I -	Non-Deri	ivativ	e Sec	urit	ties A	cquir	ed, C	Disposed (of, or E	Benefic	ially	Owned							
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3,					5. Amount of Securities Beneficially Owned Following		oirect o direct E . 4) C	7. Nature of Indirect Beneficial Ownership					
								Ì	Code	v	Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)				nstr. 4)			
Common Stock		03/09/2	015	15			M		10,000	A	\$22	322.53		,000	Г)						
Common Stock 03		03/09/2	015	15					4,480	D	\$110.4	0.4226 ⁽²⁾ 5,		520	Г							
Common	mmon Stock 03/09/2			015	15					1,994	D	\$111.4	1.4657 ⁽³⁾ 3,53		526	Г)					
Common	Stock			03/09/2	015				S ⁽¹⁾		1,809	D	\$112.4	139(4)	.39 ⁽⁴⁾ 1,717							
Common	Stock			03/09/2	015				S ⁽¹⁾		1,617	D	\$113.4	417 ⁽⁵⁾	100 D							
Common	Stock			03/09/2	015				S ⁽¹⁾		100	D	\$114	1.58	0 D							
			Table								sposed of s, converti				wned				,			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr 3, 4 and 5)		Expiration I (Month/Day			7. Title and An of Securities Underlying Derivative Sec (Instr. 3 and 4)		D	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly Di or (I)	wnership orm: rect (D) Indirect (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	e V	(A)	(D)	Date Exer	cisable	Expiration Date	Title	Amo or Num of Shar	ber								
Stock Option (right to	\$22.53	03/09/2015			М			10,000		(6)	02/10/2024	2/10/2024 Common Stock 10,		000	\$0.00 90,000		00 D					

Explanation of Responses:

- 1. The sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 7, 2014
- 2. The range in prices for the transaction reported on this line was \$110.02 to \$111.00. The average weighted price was \$110.4226. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range in prices for the transaction reported on this line was \$111.11 to \$112.04. The average weighted price was \$111.4657. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 4. The range in prices for the transaction reported on this line was \$112.15 to \$112.75. The average weighted price was \$112.4139. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 5. The range in prices for the transaction reported on this line was \$113.20 to \$114.11. The average weighted price was \$113.4170. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.

6. This option vests over a four-year period, at a rate of twenty-five percent (25%) on March 6, 2015 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole

03/11/2015

** 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.