FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSH

	OMB APPROVAL						
OWNERSHIP	OMB Number:	3235-0287					
2 OWNEROIM	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(h)

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>Vachon Mark</u>						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								(Che	eck all appli	cable) or	g Pers	son(s) to Iss	vner
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.						3. Date of Earliest Transaction (Month/Day/Year) 06/04/2015									Officer below)	(give title		Other (s below)	specify
150 SECOND STREET					4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)	IDGE M	[A	02141										1 '	X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(S	tate)	(Zip)																
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Da			Code (I	Transaction Disposed Of (D) (Instr. 3 Code (Instr. 5)			Securition Benefici Owned I	Securities Beneficially Owned Following		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	(A) (D)	or F	rice	Reporte Transac (Instr. 3	ction(s)			(Instr. 4)	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemee Execution I if any (Month/Day	Date,	4. Transacti Code (Ins				Expiration D (Month/Day/			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		urity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisabl		xpiration ate	Title	or	ount nber ıres					
Stock Option (right to buy)	\$184.98	06/04/2015			A		7,500		(1)	0	6/04/2025	Common Stock	7,	500	\$0.00	7,500		D	
Explanation	n of Respons	ses:																	

1. This option vests 100% on the earlier of June 4, 2016, or the date of the next annual meeting of stockholders.

Remarks:

/s/ Jason F. Cole, Attorney-in-Fact 06/08/2015

** 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.