FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APP	APPROVAL									
OMB Number:	3235-0287									
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0.5

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Check this box if no io	nger subject to
Section 16. Form 4 or	Form 5
obligations may contin	iue. See
Instruction 1(h)	

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					01 ,	occu	511 50(11) (Ji tiic	investment	COII	ipariy Act	01 13-0									
1. Name and Address of Reporting Person* DIXON WENDY L						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
DIAOI	N VV LIND	<u> </u>												X	Directo	or		10% O	wner		
(Last) (First) (Middle)						3. Date of Earliest Transaction (Month/Day/Year) 06/04/2015									Officer below)	(give title		Other (s	specify		
C/O BLU	JEBIRD B	IO, INC.			106/	/04/2	:015														
150 SEC	OND STR	FFT																			
150 SECOND STREET						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street)														ne) X	Form f	ilad by One	n Bone	orting Perso	nn.		
CAMBR	IDGE M	ſΑ	02141											Λ		iled by Mor		n One Repo			
(City)	(5	State)	(Zip)												F 61301						
		Tab	le I - Noi	n-Deriv	ative	Se	curities	s Ac	quired, [Disp	osed o	of, or Be	nefici	ally	Owned	ı					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				ar) l	2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr. 5)				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership						
										v	Amount	(A) o	r Price	:	Reported Transact (Instr. 3	ction(s)			(Instr. 4)		
		7							uired, Di s, options						wned						
Security or Exerc (Instr. 3) Price of Derivation	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year) 8		4. Transaction Code (Instr. 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owr Fori ly Dire or Ir (I) (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisable		kpiration ate	Title	Amoun or Numbe of Shares	r							
Stock Option (right to	\$184.98	06/04/2015			A		7,500		(1)	06	5/04/2025	Common Stock	7,500		\$0.00	7,500		D			

Explanation of Responses:

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.