FORM 4

Section 16. Form 4 or Form 5 obligations may continue. See

Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP
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OMB APPROVAL OMB Number: Estimated average burden hours per response: 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>Leschly Nick</u>																5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET					05	3. Date of Earliest Transaction (Month/Day/Year) 05/07/2014										Λ	Officer (six satisfic					
(Street) CAMBRIDGE MA 02141					- 4. I -	4. If Amendment, Date of Original Filed (Month/Day/Year)										e) <mark>X</mark>	·					
(City)	(5	State)	(Zip)														F 613011					
Table I - Non-Deriv 1. Title of Security (Instr. 3) 2. Trans Date (Month/			saction				3. Tra	3. 4. Securi Transaction Disposed Code (Instr. 5)			ities Ad	cquired	d (A) or	or 5. Amou Securiti Benefic Owned		s ally following	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership			
									Со	de V	,	Amount	nt (A) or P		Price	т	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common	Stock			05/0	7/201	L4			N	1		91,117		A	\$2.0	9	395	5,435		D		
Common Stock 0				05/0	07/2014				N	1		25,149		A	\$2.0	9	420	,584		D		
		-	Table II -									sed of, onvertil				Ow	ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expira	6. Date Exercisa Expiration Date (Month/Day/Yea			of Se Unde Deriv	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		Deri Sec	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ow For Ily Dire or I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerci	sable		xpiration ate	Title		Amount or Number of Shares							
Stock Option (right to buy)	\$2.09	05/07/2014			M			91,117	(1)	07	7/13/2021	Comi		91,117	\$(0.00	38,447	7	D		
Stock Option (right to	\$2.09	05/07/2014			M			25,149	(2)	06	5/04/2022	Comi		25,149	\$(0.00	67,116	_ _	D		

Explanation of Responses:

- 1. This option vests over a four-year period, at a rate of twenty-five percent (25%) on April 15, 2012 and in 36 equal monthly installments thereafter.
- 2. This option vests over a four-year period, at a rate of twenty-five percent (25%) on May 1, 2013 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Jason F. Cole, Attorney-in-05/09/2014 **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.