

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL	
OMB Number:	3235-0287
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(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

1. Name and Address of Reporting Person* <u>Polack Axel</u> (Last) (First) (Middle) TVM V LIFE SCIENCE VENTURES GMBH & CO. MAXIMILIANSTRASSE 35, ENTRANCE C (Street) MUNICH 2M 80539 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>bluebird bio, Inc. [BLUE]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 06/24/2013	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price				
Common Stock	06/24/2013		C		2,254,357 ⁽¹⁾	A	\$0.00	2,254,357	I	See footnote ⁽²⁾	

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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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 of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Series A-1 Convertible Preferred Stock	(3)	06/24/2013		C			6,169,117	(3)	(3)	Common Stock	325,255	(3)	0	I	See footnote ⁽²⁾
Series A-2 Convertible Preferred Stock	(3)	06/24/2013		C			11,835,834	(3)	(3)	Common Stock	624,021	(3)	0	I	See footnote ⁽²⁾
Series B Convertible Preferred Stock	(3)	06/24/2013		C			17,749,014	(3)	(3)	Common Stock	935,783	(3)	0	I	See footnote ⁽²⁾
Series C Convertible Preferred Stock	(3)	06/24/2013		C			3,994,248	(3)	(3)	Common Stock	210,589	(3)	0	I	See footnote ⁽²⁾
Series D Convertible Preferred Stock	(3)	06/24/2013		C			3,010,234	(3)	(3)	Common Stock	158,709	(3)	0	I	See footnote ⁽²⁾
Warrant to Purchase Series A-1 Stock (right to buy)	\$0.6619	06/24/2013		J ⁽⁴⁾			660,982	(5)	11/16/2015	Series A-1 Convertible Preferred Stock	660,982	\$0.00	0	I	See footnote ⁽²⁾
Warrant to Purchase Common Stock (right to buy)	\$12.55	06/24/2013		J ⁽⁴⁾		34,849		(5)	11/16/2015	Common Stock	34,849	\$0.00	34,849	I	See footnote ⁽²⁾
Warrant to Purchase Series A-1 Stock (right to buy)	\$0.6619	06/24/2013		J ⁽⁴⁾			440,650	(5)	10/26/2016	Series A-1 Convertible Preferred Stock	440,650	\$0.00	0	I	See footnote ⁽²⁾
Warrant to Purchase Common Stock (right to buy)	\$12.55	06/24/2013		J ⁽⁴⁾		23,232		(5)	10/26/2016	Common Stock	23,232	\$0.00	23,232	I	See footnote ⁽²⁾
Warrant to Purchase Series A-1 Stock (right to buy)	\$0.6619	06/24/2013		J ⁽⁴⁾			1,038,674	(5)	05/03/2017	Series A-1 Convertible Preferred Stock	1,038,674	\$0.00	0	I	See footnote ⁽²⁾
Warrant to Purchase Common Stock (right to buy)	\$12.55	06/24/2013		J ⁽⁴⁾		54,760		(5)	05/03/2017	Common Stock	54,760	\$0.00	54,760	I	See footnote ⁽²⁾

