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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPR	OVAL
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* ISIS PHARMACEUTICALS INC			2. Issuer Name and Ticker or Trading Symbol Regulus Therapeutics Inc. ["RGLS"]		tionship of Reporting all applicable) Director	Perso X	n(s) to Issuer 10% Owner
(Last) 2855 GAZELLE	(First) COURT	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/13/2014		Officer (give title below)		Other (specify below)
(Street) CARLSBAD (City)	CA (State)	92010 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group F Form filed by One I Form filed by More Person	Report	ing 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. Transa Code (4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
		(Month/Day/rear)	Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	08/13/2014		S ⁽¹⁾		2,250	D	\$7.0167 ⁽²⁾	6,995,600	D ⁽³⁾	
Common Stock	08/14/2014		S ⁽¹⁾		1,750	D	\$7.0423 ⁽⁴⁾	6,993,850	D ⁽³⁾	
Common Stock	08/15/2014		S ⁽¹⁾		1,450	D	\$6.9761 ⁽⁵⁾	6,992,400	D ⁽³⁾	

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. Transa Code (8)		of Expiration Da Derivative Securities Acquired (A) or Disposed		Expiration Date Amount o (Month/Day/Year) Securities Underlyin Derivative		Amount of Derivative Securities Security Underlying (Instr. 5) Derivative Security (Instr. 3		9. Number of derivative Securities Beneficially Owned Following Reported	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	Disposed of (D) (Instr. 3, 4 and 5) (A) (D)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		

1. Name and Addres ISIS PHARM	s of Reporting Perso ACEUTICAL	
(Last)	(First)	(Middle)
2855 GAZELLE	COURT	
(Street)		
CARLSBAD	CA	92010
(City)	(State)	(Zip)
1. Name and Addres <u>PARSHALL</u>		on*
(Last)	(First)	(Middle)
C/O ISIS PHAR	MACEUTICALS	, INC.
2855 GAZELLE	COURT	
(Street)		
CARLSBAD	CA	92010
(City)	(State)	(Zip)

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 May 22, 2014.

2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$6.87 to \$7.08 inclusive. The reporting person undertakes to provide to RGLS, any security holder of RGLS, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote to this Form 4.

3. The shares are held directly by Isis Pharmaceuticals, Inc. Ms. Parshall is an officer and director of Isis and therefore may be deemed to have voting or investment power over the shares beneficially owned by

Isis. Ms. Parshall disclaims beneficial ownership over the shares beneficially owned by Isis, except to the extent of her proportionate pecuniary interest therein as a stockholder of Isis.

4. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$6.92 to \$7.09 inclusive. The reporting person undertakes to provide to RGLS, any security holder of RGLS, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote to this Form 4.

5. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$6.86 to \$7.19 inclusive. The reporting person undertakes to provide to RGLS, any security holder of RGLS, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote to this Form 4

Remarks:

/s/ Christopher Aker, Attorney-
in-Fact for all Reporting08/15/2014Owners08/15/2014

** 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.