

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2010-06-01** | Period of Report: **2010-05-27**
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REPORTING OWNER

JACOBY PHILIP R JR

CIK: **1280180**

Type: **4** | Act: **34** | File No.: **001-32966** | Film No.: **10869726**

ISSUER

OSIRIS THERAPEUTICS, INC.

CIK: **1360886** | IRS No.: **710881115** | State of Incorporation: **DE** | Fiscal Year End: **1231**
SIC: **2836** Biological products, (no diagnostic substances)

Mailing Address
*7015 ALBERT EINSTEIN
DRIVE
COLUMBIA MD 21046*

Business Address
*7015 ALBERT EINSTEIN
DRIVE
COLUMBIA MD 21046
443-545-1819*

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person JACOBY PHILIP R JR			2. Issuer Name and Ticker or Trading Symbol OSIRIS THERAPEUTICS, INC. [OSIR]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director _____ 10% Owner <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) Chief Financial Officer		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/27/2010			6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person ____ Form Filed by More than One Reporting Person		
7015 ALBERT EINSTEIN DRIVE			4. If Amendment, Date Original Filed(Month/Day/Year)					
(Street) COLUMBIA, MD 21046								
(City)	(State)	(Zip)						

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)			
Common Stock	05/28/2010		M		1,250	A \$0.4	10,000	D	

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 of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Incentive Stock Option	\$6.46	05/27/2010		A		7,500		05/27/2011 ⁽¹⁾	05/27/2020	Common Stock	7,500	\$6.46	57,250	D	
Non-Qualified Stock Option (right to buy)	\$0.4	05/28/2010		M		1,250		12/01/2006	12/01/2015	Common Stock	1,250	\$0.4	56,000	D	

Explanation of Responses:

- Option vests in four equal installments commencing upon the first anniversary date of the grant.

Signatures

Philip R. Jacoby, Jr.

** Signature of Reporting Person

06/01/2010

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.