

INTEGRYS ENERGY GROUP, INC.
 Form 4
 May 18, 2007

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
O LEARY JOSEPH P

2. Issuer Name and Ticker or Trading Symbol
INTEGRYS ENERGY GROUP, INC. [TEG]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
130 E. RANDOLPH DRIVE
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
05/16/2007

____ Director
 Officer (give title below) _____ 10% Owner
 _____ Other (specify below)
Sr VP & Chf Financial Officer

CHICAGO, IL 60601

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(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	(D)	Price
Common Stock	05/16/2007		M		11,200	A	\$ 34.38
Common Stock	05/16/2007		S		11,200	D	\$ 59.0209
Common Stock	05/16/2007		M		6,000	A	\$ 34.09
Common Stock	05/16/2007		S		6,000	D	\$ 59.0209
Common Stock							542.3903
						I	By ESOP

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

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 Underlying Security (Instr. 3 and 4)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title
Employee Stock Option (Right to buy)	\$ 34.09 <u>(1)</u>	05/16/2007		M	6,000	12/13/2002	12/13/2011	Common Stock
Employee Stock Option (Right to buy)	\$ 34.38 <u>(3)</u>	05/16/2007		M	11,200	07/12/2002	07/12/2011	Common Stock
Employee Stock Option (Right to buy)	\$ 37.96 <u>(4)</u>					12/12/2003	12/12/2012	Common Stock
Employee Stock Option (Right to buy)	\$ 44.73 <u>(5)</u>					12/10/2004	12/10/2013	Common Stock
Employee Stock Option (Right to buy)	\$ 48.11 <u>(6)</u>					12/08/2005	12/08/2014	Common Stock
Employee Stock Option (Right to buy)	\$ 52.73 <u>(7)</u>					12/07/2007	12/07/2016	Common Stock
Employee Stock Option (Right to buy)	\$ 54.85 <u>(8)</u>					12/07/2006	12/07/2015	Common Stock

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