

WELLS REAL ESTATE INVESTMENT TRUST INC
 Form 5
 February 13, 2007

FORM 5

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

OMB APPROVAL
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 Form 3 Holdings Reported Form 4 Transactions Reported

ANNUAL 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

1. Name and Address of Reporting Person *
WELLS LEO F III

(Last) (First) (Middle)

6200 THE CORNERS PARKWAY

(Street)

NORCROSS, GA 30092

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
WELLS REAL ESTATE INVESTMENT TRUST INC [N/A]

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
 12/31/2006

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)

6. Individual or Joint/Group Reporting

(check applicable line)

Form Filed by One Reporting Person
 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 at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D) Price			
Common Stock	03/22/2006	GA	P	56.74 A \$ 8.31	4,539.61	D	GA
Common Stock	03/22/2006	GA	P	17.98 A \$ 8.31	4,539.61	I	Spouse
Common Stock	06/22/2006	GA	P	57.74 A \$ 8.31	4,539.61	D	GA
Common Stock	06/22/2006	GA	P	18.3 A \$ 8.31	4,539.61	I	Spouse

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