#### FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue See Instruction 1(b).
Form 3 Holdings Reported.

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## ANNUAL 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

# OMB APPROVAL

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Form 4 Tr Reported.	ransactions	(1)	Investmen	nt Compan	y Act of 194	0		,						
1. Name and MOSS DON		porting Person *	WELLS REAL	2. Issuer Name <b>and</b> Ticker or Trading Symbol WELLS REAL ESTATE INVESTMENT TRUST INC [N/A]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
	(First) ING OVERLO	(Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2006						Director Officer (give title below)	Ot (s <sub>l</sub>	10% Owner Other (specify below)			
(Street) DULUTH	GA	30097	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable Line)					
(City)	(State)	(Zip)					X Form filed by One Reporting Person Form filed by More than One Reporting Person							
	Та	ble I - Non-Deriva	ative Securities	Acquired,	Disposed of	of, or	Bene	ficial	ly Owned					
1. Title of Security (Instr. 3)  2. Transaction Date(Month/Da		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	6. Ownership Form: Direct	7. Nature of Indirect Beneficial			
					Amount	(A) or (D)	Prio	ce	Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	(D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)			
Common Stock		06/22/2006		Р	1,707.25	А	\$ 8.	.31	101,921.94	D				
Common Stock		09/22/2006		Р	1,737.39 A \$8		\$ 8.	\$ 8.31 101,921.94		D				
Common Stock		12/22/2006		Р	1,768.06	Α	\$ 8.	8.31 101,921.94		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 Excercise 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 Sounderlying Derivative Se 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned	10. Ownership Form: Direct (D) or Indirect	11. Nature of Indirect Beneficial Ownership	
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Following Reported Transaction(s) (Instr. 4)	(I) (Instr. 4)	(Instr. 4)
Warrants	\$ <b>12</b>	06/22/2006		А	68.29		06/22/2006	(1)	Common Stock	68.29	\$ 12	3,619.16	D	
Warrants	\$ 12	09/22/2006		А	69.5		09/22/2006	(1)	Common Stock	69.5	\$ 12	3,619.16	D	
Warrants	\$ <b>12</b>	12/22/2006		А	70.72		12/22/2006	(1)	Common Stock	70.72	\$ 12	3,619.16	D	

### **Explanation of Responses:**

1. Expiration date of warrants shall be the earlier of (i) 5:00 p.m. Eastern Standard Time on the fifth anniversary of the date of a listing of Wells Real Estate Investment Trust, Inc. ("Wells REIT") shares on a national exchange, (ii) the date of removal "for cause" of the independent director to whom the warrant was issued as a director of Wells REIT, or (iii) three months following the date the independent director to whom the warrant was issued ceases to be a director of Wells REIT for any reason, except for death or disability, to which the warrant expires one year from the date of death.

Douglas P. Williams, Attorney-in-Fact

02/13/2007

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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 See18 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.