

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.

Form 4 Transactions 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	
OMB Number:	3235-0362
Expires:	January 31, 2014
Estimated average burden hours per response	1.0

1. Name and Address of Reporting Person * MOSS DONALD S <hr/> (Last) (First) (Middle) 9165 ETCHING OVERLOOK <hr/> (Street) DULUTH GA 30097 <hr/> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol WELLS REAL ESTATE INVESTMENT TRUST INC [n/a]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2005	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

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 Indirect Beneficial Ownership (Instr. 4)
				Amount	(A) or (D)	Price			
Common Stock	12/31/2005 ⁽¹⁾		J5 ⁽¹⁾	96,709.24 ⁽¹⁾	A	\$ 8.31 ⁽²⁾	96,709.24	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: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Warrants	\$ 12	07/14/2000		A	8.28		07/14/2000	(3)	Common Stock	8.28	\$ 12	3,410.65	D	
Warrants	\$ 12	10/11/2000		A	8.72		10/11/2000	(3)	Common Stock	8.72	\$ 12	3,410.65	D	
Warrants	\$ 12	12/21/2000		A	7.34		12/21/2000	(3)	Common Stock	7.34	\$ 12	3,410.65	D	
Warrants	\$ 12	03/23/2001		A	9.03		03/23/2001	(3)	Common Stock	9.03	\$ 12	3,410.65	D	
Warrants	\$ 12	06/22/2001		A	9.2		06/22/2001	(3)	Common Stock	9.2	\$ 12	3,410.65	D	
Warrants	\$ 12	09/21/2001		A	9.37		09/21/2001	(3)	Common Stock	9.37	\$ 12	3,410.65	D	
Warrants	\$ 12	12/21/2001		A	9.86		12/21/2001	(3)	Common Stock	9.86	\$ 12	3,410.65	D	
Warrants	\$ 12	12/26/2001		A	2,247.19		12/26/2001	(3)	Common Stock	2,247.19	\$ 12	3,410.64	D	
Warrants	\$ 12	07/23/2002		A	898.88		07/23/2002	(3)	Common Stock	898.88	\$ 12	3,410.65	D	
Warrants	\$ 12	06/22/2005		A	67.22		06/22/2005	(3)	Common Stock	67.22	\$ 12	3,410.65	D	
Warrants	\$ 12	09/22/2005		A	68.45		09/22/2005	(3)	Common Stock	68.45	\$ 12	3,410.65	D	
Warrants	\$ 12	12/22/2005		A	67.11		12/22/2005	(3)	Common Stock	67.11	\$ 12	3,410.65	D	
Options	\$ 12	12/31/2005 ⁽⁴⁾		J ⁽⁴⁾	8,500 ⁽⁴⁾		06/16/1999 ⁽⁵⁾	06/16/2009 ⁽⁶⁾	Common Stock	8,500	\$ 12	8,500	D	

Explanation of Responses:

1. Represents total amount of securities purchased as of December 31, 2005
2. Prices ranging from \$10.00 to \$8.31 over six year period.
3. No expiration date except upon dissolution, liquidation, or merger or consolidation of Wells Real Estate Investment Trust, Inc. ("Wells REIT") where Wells REIT is not the surviving corporation.
4. Represents total amount of options issued as of December 31, 2005.
5. Exercisable dates ranging from 6/19/1999 to 7/19/2007.
6. Expiration dates ranging from 6/16/2009 to 7/19/2015.

Douglas P. Williams,
Attorney-in-Fact

04/12/2006

** 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.