

FORM 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* SESSOMS WALTER W (Last) (First) (Middle) 5995 RIVER CHASE CIRCL (Street) ATLANTA GA 30328 (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) 02/13/2006			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		

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⁾		J ⁽¹⁾⁵	61,575.19 ⁽¹⁾	A	\$8.31 ⁽²⁾	61,575.19	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
Warrants	\$12	09/27/2000		A5	67.42		09/27/2000	(3)	Common Stock	67.42	\$12	2,418.06	D	
Warrants	\$12	08/15/2001		A5	404.49		08/15/2001	(3)	Common Stock	404.49	\$12	2,418.06	D	
Warrants	\$12	11/07/2001		A5	404.49		11/07/2001	(3)	Common Stock	404.49	\$12	2,418.06	D	
Warrants	\$12	01/14/2002		A5	404.49		01/14/2002	(3)	Common Stock	404.49	\$12	2,418.06	D	
Warrants	\$12	04/12/2002		A5	404.49		04/12/2002	(3)	Common Stock	404.49	\$12	2,418.06	D	
Warrants	\$12	09/20/2002		A5	202.25		09/20/2002	(3)	Common Stock	202.25	\$12	2,418.06	D	
Warrants	\$12	01/15/2003		A5	202.25		01/15/2003	(3)	Common Stock	202.25	\$12	2,418.06	D	
Warrants	\$12	03/22/2004		A5	37.36		03/22/2004	(3)	Common Stock	37.36	\$12	2,418.06	D	
Warrants	\$12	06/22/2004		A5	37.97		06/22/2004	(3)	Common Stock	37.97	\$12	2,418.06	D	
Warrants	\$12	09/22/2004		A5	40.5		09/22/2004	(3)	Common Stock	40.5	\$12	2,418.06	D	
Warrants	\$12	12/22/2004		A5	41.24		12/22/2004	(3)	Common Stock	41.24	\$12	2,418.06	D	
Warrants	\$12	03/28/2005		A5	42		03/28/2005	(3)	Common Stock	42	\$12	2,418.06	D	
Warrants	\$12	06/22/2005		A5	42.8		06/22/2005	(3)	Common Stock	42.8	\$12	2,418.06	D	
Warrants	\$12	09/22/2005		A5	43.58		09/22/2005	(3)	Common Stock	43.58	\$12	2,418.06	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
Warrants	\$12	12/22/2005		A5	42.73		12/22/2005	(3)	Common Stock	42.73	\$12	2,418.06	D	
Options	\$12	12/31/2005 ⁽⁴⁾		J ⁽⁴⁾ 5	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 five 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 6/16/1999 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.

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