

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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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

**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 \*  
**SESSOMS WALTER W**  
 (Last) (First) (Middle)

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)

**5995 RIVER CHASE CIRCL**  
 (Street)

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

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

**ATLANTA, GA 30328**  
 (City) (State) (Zip)

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

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)	Amount or Price		
Common Stock	03/22/2006	Â	P	1,087.01 A	\$ 8.31	63,768.41 D	Â
Common Stock	06/22/2006 <sup>(1)</sup>	Â	P	1,106.21 A	\$ 8.31	63,768.41 D	Â

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

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**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)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Warrants	\$ 12	03/22/2006	Â	A	43.48 Â	03/22/2006 Â <sup>(2)</sup>	Common Stock	43.48
Warrants	\$ 12	06/22/2006	Â	A	44.25 Â	06/22/2006 Â <sup>(2)</sup>	Common Stock	44.25

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SESSOMS WALTER W 5995 RIVER CHASE CIRCL ATLANTA, GA 30328	Â X	Â	Â	Â

## Signatures

Douglas P. Williams, Executive Vice President  
Date: 02/13/2007

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Explanation of Responses:

\* 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).

(1) Mr. Walter W. Sessoms passed away on July 2, 2006.

All warrants previously issued to Mr. Sessoms may be exercised by his estate or beneficiary of his estate to whom such warrants were transferred within one year from the date of death (July 2, 2006); however, any such warrants which are not so exercised within one year of the date of death will expire.

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.