## FORM 5

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL

**OWNERSHIP** 

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.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

1. Name and Address of Reporting Person*  WELLS LEO F III				2. Issuer Name and Ticker or Trading Symbol WELLS REAL ESTATE INVESTMENT TRUST INC [ N/A ]							ENT	5. Relationship of Reporti (Check all applicable) X Director			10%		Owner	
(Last) (First) (Middle) 6200 THE CORNERS PARKWAY				3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2006									belov	er (give title v)	Э	Oth belo	er (specify ow)	
(Street) NORCROSS GA 30092 (City) (State) (Zip)				4. If Amend	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
		Tab	le I - Non-Deriv	/ative Secเ	ıritie	es Acc	uired	I, Dis	posed o	of, or	Benefic	cially	/ Owne	ed				
, , ,			2. Transaction Date	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		es		ership   I	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			(Month/Day/Year)					Amou		(A) or (D)	Price		Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)		Form: Direct (D) or Indirect (I) (Instr. 4)			
Common Stock			03/22/2006			P		56	5.74	A	\$8.31		4,539.61			D		
Common Stock			03/22/2006		P			17	7.98	A	\$8.31		4,539.61			I	Spouse	
Common Stock			06/22/2006		P			57	7.74	A	\$8.31		4,539.61			D		
Common Stock			06/22/2006		P			1	8.3	A	\$8.31		4,539.61			I	Spouse	
Common Stock			09/22/2006		P			58	3.76	A	\$8.31		4,539.61			D		
Common	Stock		09/22/2006		P			18	3.62	A	\$8.31		4,539.61		I		Spouse	
Common	Stock		12/22/2006		P			59	9.81	A	\$8.31		4,539.61		D			
Common Stock			12/22/2006		P			18	3.95	A	\$8.31		4,539.61			I	Spouse	
		Ta	able II - Derivat	ive Securi uts, calls,			,	•	,			•	Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4.	5. N of Deri Secu Acq (A) o Disp	umber vative urities uired or posed 0) tr. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		8. Pri of Deriv Secui (Instr		derivative Securities rity Beneficia		10. Ownersh Form: Direct (D or Indire (I) (Instr. 4)	Beneficial Ownership ect (Instr. 4)	
					(A)	(D)	Date Exerci	sable	Expiration Date	1 Title	Amour or Number of Shares	er						

Explanation of Responses:

Douglas P. Williams, 02/13/2007 Attorney-in-Fact

\*\* Signature of Reporting Person Date

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

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.

 $<sup>^{\</sup>star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).