MARSH STEPHEN P

Check this box if

no longer subject

to Section 16.

5 obligations

may continue.

Form 4 or Form

Form 5

January 14, 2010

FORM 5

OMB APPROVAL

3235-0362

January 31,

OMB UNITED STATES SECURITIES AND EXCHANGE COMMISSION Number: Washington, D.C. 20549

Expires:

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

2005 Estimated average burden hours per response... 1.0

See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

Reported Form 4

30(h) of the Investment Company Act of 1940

Transactions Reported

1. Name and A MARSH ST	Symbol ENTER	2. Issuer Name and Ticker or Trading Symbol ENTERPRISE FINANCIAL SERVICES CORP [EFSC]				5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last)		(Month/I	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2009				Director 10% Owner _X Officer (give title Other (specify below) President			
150 N. MEI	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)				6. Individual or Joint/Group Reporting (check applicable line)			
ST. LOUIS	MO 63105						_X_ Form Filed by Form Filed by Person	1 0		
(City)	(State)	(Zip) Tab	le I - Non-Deri	ivative Sec	uritie	s Acqu	ired, Disposed o	of, or Beneficial	lly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (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	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Amount	(A) or (D)	Price	Fiscal Year (Instr. 3 and 4)	(msu. 1)	(mott. +)	
Common Stock	Â	Â	Â	Â	Â	Â	4,492	D	Â	
Common Stock	Â	Â	Â	Â	Â	Â	50,282	I	By Trust	
Common Stock	Â	Â	Â	Â	Â	Â	509	I	401 (k) Plan (1)	
Reminder: Repsecurities bene					llection of info		SEC 2270 (9-02)			

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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 Securitie Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration Date (Month/Day/Year e	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou Underlying Securi (Instr. 3 and 4)	
					(A) (D)	Date Exercisable	Expiration Date	Title	Amo or Nun of S	
Restricted Share Units	Â	Â	Â	Â	Â	(3)	(3)	Common Stock	6,7	
Stock Settled Stock Appreciation Rights	\$ 15.95	Â	Â	Â	Â	07/07/2009(4)	07/07/2018	Common Stock	36,	

Reporting Owners

Reporting Owner Name / Address	Relationships						
1	Director	10% Owner	Officer	Other			
MARSH STEPHEN P 150 N. MERAMEC ST. LOUIS, MO 63105	Â	Â	President	Â			

Signatures

Stephen P.

Marsh

**Signature of Reporting Person

O1/14/2010

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).
- The reporting person holds units in the stock fund and the number of shares reported as indirectly held in the 401 (k) plan in this row is an (1) estimate of the number of shares of the issuer's Common Stock held in the unitized stock fund and allocated to the reporting person's account.
- (2) The RSUs were granted pursuant to the Company's 2002 Stock Incentive Plan. Each RSU represents the right to receive one share of Common Stock, subject to adjustment as provided in the Grant Agreement.
- The RSUs vest at a rate of 20% annually over five years, subject to continued employment of the reporting person. Vesting occurs on (3) December 15 of each year, commencing in the calendar year of the grant. On each vesting date, for each RSU vesting on such date, the reporting person will receive one share of Common Stock.

Reporting Owners 2

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Each SSAR consists of the right to receive an amount, in common stock, equal to the excess of the fair market value of a share of common stock on the date of exercise over the exercise price of the SSAR. The SSARs vest at a rate of 20% annually over five years, subject to continued employment of the reporting person. Vesting occurs on July 7 of each year, commencing July 7, 2009.

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.