Guiltinan Richard J JR Form 4 February 24, 2010

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

OMB APPROVAL OMB

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0.5

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Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Middle)

(Zip)

(Print or Type Responses)

1(b).

(Last)

1. Name and Address of Reporting Person * Guiltinan Richard J JR

(First)

(State)

2. Issuer Name and Ticker or Trading Symbol

FLOWSERVE CORP [FLS]

3. Date of Earliest Transaction (Month/Day/Year)

02/22/2010

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

5215 N. O'CONNOR BLVD., **SUITE 2300**

> (Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

X_ Officer (give title Other (specify below) below) SVP Finance and CAO

6. Individual or Joint/Group Filing(Check

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person

IRVING, TX 75039

(City)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned Following

Director

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) Code V Amount (D)

266

Reported Transaction(s) (Instr. 3 and 4)

Common Stock

share)

(\$1.25 par 02/22/2010 value per

F

21,843

Price

D

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

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SEC 1474 (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	2.	3. Transaction Date		4.	5.	6. Date Exer		7. Title		8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ate Amou		nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secur
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Derivative		e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Own
	Security				Acquired (A) or						Follo
											Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3, 4, and 5)						
									Amount		
						Date Expir Exercisable Date	Expiration		or		
							*	Title	Number		
							Date		of		
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Officer Other Director 10% Owner

Guiltinan Richard J JR 5215 N. O'CONNOR BLVD., SUITE 2300 IRVING, TX 75039

SVP Finance and CAO

Signatures

/s/ Ronald F. Shuff, 02/24/2010 attorney-in-fact

**Signature of Reporting Person 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).

Note: File three copies of this Form, one of which must be manually signed. If space 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.

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