FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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).

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* MEHRA AJAY						2. Issuer Name and Ticker or Trading Symbol OSI SYSTEMS INC [OSIS]										ck all applic	onship of Reporting Person(s) to Issue all applicable) Director 10% Own				
(Last) 12525 C	(Last) (First) (Middle) 12525 CHADRON AVE					3. Date of Earliest Transaction (Month/Day/Year) 02/03/2010								>	Officer below)	(give title	⁷ ice P	Other (s below)			
(Street) HAWTHORNE CA 90250 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. In Line)						
		Tal	ole I - No	n-Deri\	/ative	e Se	curit	ties Ac	qui	ired, [Disp	oosed o	f, or E	Benef	icially	/ Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						ar)	if any	emed tion Date, n/Day/Yea	, 7	3. Transac Code (In 8)			ies Acq Of (D) (uired (<i>F</i> Instr. 3	A) or , 4 and		es ally Following	Form (D) o	n: Direct or Indirect onstr. 4)	7. Nature of Indirect Beneficial Ownership	
										Code	v	Amount (A) or (D) Pri		Price	Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 02/03						2010				S		30,000	0,000 D \$		\$26.09	123	123,135		D		
			Table II -									sed of, onvertil				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deeme Execution if any (Month/Day	Date,	4. Transactior Code (Instr. 8)		of Deri Sec Acq (A) o Disp of (I	umber vative urities uired or oosed O) (Instr. and 5)	6. Date Exercisa Expiration Date (Month/Day/Yea				7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		curity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	i lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Dat Exe	te ercisable		expiration Date	Title	or Nu of	nount Imber ares						
Option to Sell Common Stock	\$12.52	02/03/2010			S			13,334	01/	/12/2010	0	1/11/2019	Commo Stock		3,334	\$12.52	271,06	8	D		
Option to Sell Common	\$16.21	02/03/2010			s			36,666	02/	/07/2009	0	2/07/2011	Comm		5,666	\$16.21	234,40	2	D		

Explanation of Responses:

/s/ Ajay Mehra

02/05/2010

** 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.

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.