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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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]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) (First) (Middle) 12525 CHADRON AVE						3. Date of Earliest Transaction (Month/Day/Year) 09/02/2010								X	Offic	er (give title w)		(specify
(Street) HAWTHORNE CA 90250 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line) X	Forn Forn	al or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson			
		•	Table I - N	lon-Deriv	ative	Sec	uritie	s Ac	quired	l, Di	sposed o	f, or E	enefic	ially	Owne	ed		
1. Title of Security (Instr. 3) 2. Transactic Date (Month/Day/				Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a				ed (A) or tr. 3, 4 ar	nd 5) Securiti Benefic		ties F cially (I I Following (I	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) o	Price	Trai		action(s) 3 and 4)		(Instr. 4)	
Common Stock 09/02/20				2010)10		S		3,750(1)	D	\$31.	.4758		60,255	D			
			Table II	- Derivat (e.g., p							osed of, convertib				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercis Price of Derivative Security	e (Month/Day/Y	Execu (ear) if any			section Instr. 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date Expiration Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		t		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. Shares represent vested restricted stock.

/s/ Ajay Mehra

09/03/2010

** 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.