FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL				
	OMB Number:	3235-0287				
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l	hours per response:	0.5				

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)					
WILLIIM I I I I I I I I I I I I I I I I I												X Directo			10% Ow	·	
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year)							X Officer below)	er (give title w)		Other (specification)	pecify	
12525 CHADRON AVE					09/20/2010							Executive Vice President					
(Street)					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
HAWTHORNE CA		90250									X Form filed by One Reporting Person						
(City)	(State)	(Zip)									Form filed by More than One Reporting Person					
		Tab	le I - Non-l	Derivati	ve Se	curit	ties Ac	quired, Di	sposed c	f, or Be	neficial	y Owned					
Date				2. Transacti Date Month/Day	Execution Date,			Code (Instr. 5)				Beneficia Owned F	es ally following	6. Owne Form: I (D) or Ir (I) (Inst	Direct c ndirect E r. 4) C	7. Nature of Indirect Beneficial Ownership	
				Code V				Amount	(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)			(Instr. 4)		
			Table II - De					uired, Dis , options,				Owned			·		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	e (Month/Day/Year)	3A. Deemed Execution Date if any (Month/Day/Ye	4. Transaction Code (Instr				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y C F D o (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	, v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
Option to Sell Common Stock	\$16.21	09/20/2010		S			23,659	02/08/2009	02/07/2011	Common Stock	23,659	\$34.2746	210,743	3	D		

Explanation of Responses:

/s/ Ajay Mehra

09/20/2010

** 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.

 $^{^{\}star}$ 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).