FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	OVAL							
OMB Number:	3235-0287							
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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*							2. Issuer Name and Ticker or Trading Symbol OSI SYSTEMS INC [OSIS]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
MEHRA AJAY							OUT OT TELLINIO II (C. COIO)									X Director			10% C	wner	
(Last) (First) (Middle)						3. D	Date of Earliest Transaction (Month/Day/Year)										Officer (give title below)		Other (specify below)		
12525 CHADRON AVE						08/	08/11/2010									Executive Vice President					
(Street)						4. If	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)	ity) (State) (Zip)																Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						ır) E	A. Deemed execution Date, any Month/Day/Year)		Code (Transaction Disposed Code (Instr. 5)		ties Acquired (A) I Of (D) (Instr. 3, 4		(A) or 3, 4 an	d Si Bi	Amount of ecurities eneficially wned Following eported	Form	nership : Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
										Code	v	Amount	(A) or D)	Price	Tr	ransaction(s) nstr. 3 and 4)			(1130.4)	
Common Stock 08/11/						/2010	2010			A		40,000	(1) A		\$()	164,005		D		
			Та						•			sed of, onvertib				y Owr	ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion Exercion Exercion Price of Derivative Security	on E	i. Transaction Jate Month/Day/Year)	3A. Deem Executior if any (Month/Da	Date,		ransaction code (Instr.)		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amount or Numbe of Title Shares		8. Price Derivat Securit (Instr. 5	derivative Securities	/ O F6 D oi (I)	0. Iwnership orm: iriect (D) r Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. Shares are restricted stock issued to the Reporting Person pursuant to the OSI Amended and Restated 2006 Equity Participation Plan, as amended.

/s/ Ajay Mehra

08/12/2010 ** 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.