FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL							
	OMB Number: 3235-02								
l	Estimated average burden								
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*						2. Issuer Name and Ticker or Trading Symbol OSL SYSTEMS INC LOSIS 1								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
MEHRA AJAY								11110			,			X	Direc	ctor		10% C	wner	
						Date of Earliest Transaction (Month/Day/Year)								X					(specify	
12525 CHADRON AVE							09/08/2010								Executive Vice President					
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
ORNE	E CA 90250		0250												Form filed by One Reporting Person				on	
(City) (State) (Zip)				-										Form filed by More than One Reporting Person				orting		
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date						Execution Date, Year) if any		Date,						d 5)	Secur Benef Owne	ities icially d Following	Form: [(D) or li	Direct ndirect	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) o	Price	Trans		action(s)			(Instr. 4)	
Common Stock 09/08/20)10		S		1,333(1)	D	\$31.4	4894	1	58,922	Ι)			
		Та	ble II -												ned					
or Exerci	conversion r Exercise (Month/Day/Year) Trice of lerivative Date (Month/Day/Year) Execution Date, if any (Month/Day/Year)		Code (8)	Transaction Code (Instr. 5)		vative prities sired rosed) r. 3, 4	Expirat (Month	tion Da l/Day/Y	Amount of Securities Underlying Derivative Security (Instr. and 4) Amount of Securities Underlying Derivative Security (Instr. and 4)		t of ies ying ive y (Instr. 3 Amount or Number of	8. Price of Derivative Security (Instr. 5)		derivative Securities Beneficially Owned Following Reported	Owi Fori Dire or II (I) (I	m: ect (D) ndirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
	HADRON Security (In Stock	(First) HADRON AVE CORNE CA (State) Security (Instr. 3) Stock 2. Conversion or Exercise Price of Derivative	(First) (I HADRON AVE IORNE CA 9 (State) (Z Table Security (Instr. 3) Stock Ta 2. Conversion or Exercise Price of Derivative (Month/Day/Year)	(First) (Middle) HADRON AVE IORNE CA 90250 (State) (Zip) Table I - Note that the second of Exercise Price of Derivative (Month/Day/Year) (Middle) (A) 4	(First) (Middle) HADRON AVE IORNE CA 90250 (State) (Zip) Table I - Non-Deriv Security (Instr. 3) 2. Transac Date (Month/Da Stock 09/08/2 Table II - Derivat (e.g., pi Conversion or Exercise Price of Derivative (Month/Day/Year) 2. (Month/Day/Year)	(First) (Middle) HADRON AVE (State) (Zip) Table I - Non-Derivative Security (Instr. 3) 2. Transaction Date (Month/Day/Year) Stock Table II - Derivative S (e.g., puts, c) Conversion or Exercise Price of Derivative (Month/Day/Year) 2. Transaction Date (Month/Day/Year) (Month/Day/Year) 3. 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Table II - Derivative Securities Acquee.g., puts, calls, warrants, (A) or Derivative Securities Acquered (A) or Disposed of (D) (Instr. 3, 4 and 5)	(First) (Middle) (A AJAY (First) (Middle) (BADRON AVE (State) (Zip) Table I - Non-Derivative Securities Acquired (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Code Stock 09/08/2010 S Table II - Derivative Securities Acquired, (e.g., puts, calls, warrants, option of Exercise Price of Derivative Security (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)	(First) (Middle) (First) (Middle) (First) (Middle) (GRNE CA 90250 (State) (Zip) Table I - Non-Derivative Securities Acquired, Dispate (Month/Day/Year) (Month/Day/Year) (Stock 1. Transaction Date (Month/Day/Year) Table II - Derivative Securities Acquired, Dispate (S.g., puts, calls, warrants, options,	(First) (Middle) HADRON AVE Conversion or Exercise Price of Derivative Security	(First) (Middle) HADRON AVE 3. Date of Earliest Transaction (Month/Day/Year) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or E Security (Instr. 3) 2. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) Stock Defection Date (e.g., puts, calls, warrants, options, convertible security 2. Conversion or Exercise Date (Month/Day/Year) Conversion or Exercise Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) A Securities Acquired, Disposed of, or Ber (e.g., puts, calls, warrants, options, convertible security A Security (Instr. 3) Date (E.g., puts, calls, warrants, options, convertible security (Instr. 3, 4 and 5) Date (Instr. 3) Date (Expiration Date (Month/Day/Year) (Instr. 3, 4 and 5)	(First) (Middle) HADRON AVE Security (Instr. 3) Code V Amount (A) or (D) (B) (Code (Instr. Price of Derivative Securities Acquired, Disposed of, or Beneficial (e.g., puts, calls, warrants, options, convertible securities) Conversion Date (Honth/Day/Year) (A) or (D) (B) (B)	(Check X X X (Check X X X) (First) (Middle) (M	(Check all app X Direct Normal Corners of Co	OSI SYSTEMS INC [OSIS] (Check all applicable) X Director X Officer (give title below) Executive V (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned Execution Date (Month/Day/Year) (Month/Day/Year) 2. Transaction Date (Month/Day/Year) 2. Transaction (Month/Day/Year) 3. Transaction (Month/Day/Year) 4. Securities Acquired, (A) or (B) (Month/Day/Year) 5. Number of (Month/Day/Year) 5. Number of (Month/Day/Year) 6. Individual or Joint/Group (Joint) 7. Transaction	(First) (Middle) (First) (Mid	OSI SYSTEMS INC [OSIS] (Check all applicable) X Director 10% O X Officer (give title below) Executive Vice President 4. 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Explanation of Responses:

1. Shares represent vested restricted stock.

<u>/s/ Ajay Mehra</u>

09/09/2010

** 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.