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UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)

	OSI Systems, Inc.	
	(Name of Issuer)	
	Common Stock	
	(Title of Class of Securities)	
	671044105	
	(CUSIP Number)	1
	December 31, 2006	
	(Date of Event Which Requires Filing of this Statement)	
Checl	k the appropriate box to designate the rule pursuant to which this Schedule is filed:	
[X]	Rule 13d-1(b)	
[]	Rule 13d-1(c)	
[]	Rule 13d-1(d)	
subje	remainder of this cover page shall be filled out for a reporting person's initial filing on this form ect class of securities, and for any subsequent amendment containing information which would a ded in a prior cover page.	
of the	information required in the remainder of this cover page shall not be deemed to be 'filed' for the pure Securities Exchange Act of 1934 ('Act') or otherwise subject to the liabilities of that section of the total other provisions of the Act (however, see the Notes).	
CUS	SIP No. 671044105	
Pers	on 1	
1.	(a) Names of Reporting Persons. Wells Fargo & Company	
	(b) Tax ID 41-0449260	
2.	Check the Appropriate Box if a Member of a Group (See Instructions)	
	(a) []	
	(b) []	
3.	SEC Use Only	

4.	4. Citizenship or Place of Organization Delaware					
Number of		5. Sole Voting Power 2,179,035				
Number of Shares Beneficially Owned by		6. Shared Voting Power 0				
Each Reporting Person With		7. Sole Dispositive Power 2,186,680				
		8. Shai	red Dispositive Power 25,900			
9.	9. Aggregate Amount Beneficially Owned by Each Reporting Person 2,218,880					
10.	Check i	if the Ag	gregate Amount in Row (9) Excludes Certain Shares (See Instructions)			
11.	Percent	of Class	s Represented by Amount in Row (9) 13.28 %			
12.	Type of	Reporti	ng Person (See Instructions)			
НС						
Item 1.	(a)		of Issuer vstems, Inc.			
	(b)	-	ss of Issuer's Principal Executive Offices			
	()		CHADRON AVENUE, HAWTHORNE, CA 90250			
Item 2.						
	(a)		of Person Filing Fargo & Company			
	(b)		ss of Principal Business Office or, if none, Residence ontgomery Street, San Francisco, CA 94104			
	(c)	Citizen Delawa	•			
(d)			f Class of Securities on Stock			
	(e)	CUSIP 671044	Number 4105			
Item 3.	em 3. If this statement is filed pursuant to 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:					
	(a)	[]	Broker or dealer registered under section 15 of the Act (15 U.S.C. 78c).			
	` ′	[]	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).			
	(c)	[]	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).			
		[]	Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).			
	(e)		An investment adviser in accordance with 240.13d-1(b)(1)(ii)(E);			
	(f)	[]	An employee benefit plan or endowment fund in accordance with 240.13d-1(b)(1)(ii)(F);			
	(g)	[X]	A parent holding company or control person in accordance with 240.13d-1(b) (1)(ii)(G);			

A savings associations as defined in Section 3(b) of the Federal Deposit (h) [] Insurance Act (12 U.S.C. 1813); A church plan that is excluded from the definition of an investment company (i) under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3); Group, in accordance with 240.13d-1(b)(1)(ii)(J). (j) Item 4. Ownership. Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1. (a) Amount beneficially owned: 2,218,880 (b) Percent of class: 13.28% (c) Number of shares as to which the person has: Sole power to vote or to direct the vote 2,179,035 (i) (ii) Shared power to vote or to direct the vote 0 (iii) Sole power to dispose or to direct the disposition of 2,186,680 (iv) Shared power to dispose or to direct the disposition of 25,900 Person 2 1. (a) Names of Reporting Persons. Wells Capital Management Incorporated (b) Tax ID 95-3692822 2. Check the Appropriate Box if a Member of a Group (See Instructions) (a) (b) 3. Citizenship or Place of Organization California 4. 5. Sole Voting Power 225,047 Number of Shares 6. Shared Voting Power 0 Beneficially Owned by 7. Sole Dispositive Power 1,462,107 **Each Reporting** Person With 8. Shared Dispositive Power 0 Aggregate Amount Beneficially Owned by Each Reporting Person 1,462,107 9. 10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) 11. Percent of Class Represented by Amount in Row (9) 8.75 % 12. Type of Reporting Person (See Instructions)

Item 1.

- (a) Name of Issuer OSI Systems, Inc.
- (b) Address of Issuer's Principal Executive Offices12525 CHADRON AVENUE, HAWTHORNE, CA 90250

Item 2.

- (a) Name of Person Filing
 Wells Capital Management Incorporated
- (b) Address of Principal Business Office or, if none, Residence 525 Market Street, San Francisco, CA 94105
- (c) Citizenship California
- (d) Title of Class of Securities Common Stock
- (e) CUSIP Number 671044105

Item 3. If this statement is filed pursuant to 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a) [] Broker or dealer registered under section 15 of the Act (15 U.S.C. 78c).
- (b) [] Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) [] Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) [] Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- (e) [X] An investment adviser in accordance with 240.13d-1(b)(1)(ii)(E);
- (f) [] An employee benefit plan or endowment fund in accordance with 240.13d-1(b)(1)(ii)(F);
- (g) [] A parent holding company or control person in accordance with 240.13d-1(b) (1)(ii)(G);
- (h) [] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) [] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) [] Group, in accordance with 240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 1,462,107
- (b) Percent of class: 8.75%
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote 225,047
 - (ii) Shared power to vote or to direct the vote 0
 - (iii) Sole power to dispose or to direct the disposition of 1,462,107
 - (iv) Shared power to dispose or to direct the disposition of 0

1.		(a) Names of Reporting Persons. Wells Fargo Funds Management, LLC			
	(b) Tax ID 94-3382001				
2.		Check the Appropriate Box if a Member of a Group (See Instructions)			
		(a) []			
		(b) []			
3.		SEC Use Only			
4.		Citizenship or Place of Organization Delaware			
		5. Sole Voting Power 1,618,420			
Number of Shares Beneficially		6. Shared Voting Power 0			
Owned by Each Reporting Person With	ng	7. Sole Dispositive Power 34,705			
		8. Shared Dispositive Power 0			
9.		Aggregate Amount Beneficially Owned by Each Reporting Person 1,618,420			
10		Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)			
11		Percent of Class Represented by Amount in Row (9) 9.69 %			
12	2.	Type of Reporting Person (See Instructions)			
IA					
Item 1.					
(a	-	Name of Issuer OSI Systems, Inc.			
(b		Address of Issuer's Principal Executive Offices			
		12525 CHADRON AVENUE, HAWTHORNE, CA 90250			
Item 2.					
(a	-	Name of Person Filing Wells Fargo Funds Management, LLC			
(b		Address of Principal Business Office or, if none, Residence 525 Market Street, San Francisco, CA 94105			
(0	-	Citizenship Delaware			
(d	_	Title of Class of Securities Common Stock			

(e) CUSIP Number 671044105

Item 3. If this statement is filed pursuant to 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a) [] Broker or dealer registered under section 15 of the Act (15 U.S.C. 78c).
- (b) [] Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) [] Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) [] Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- (e) [X] An investment adviser in accordance with 240.13d-1(b)(1)(ii)(E);
- (f) [] An employee benefit plan or endowment fund in accordance with 240.13d-1(b) (1)(ii)(F);
- (g) [] A parent holding company or control person in accordance with 240.13d-1(b) (1)(ii)(G);
- (h) [] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) [] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) [] Group, in accordance with 240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 1,618,420
- (b) Percent of class: 9.69%
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote 1,618,420
 - (ii) Shared power to vote or to direct the vote 0
 - (iii) Sole power to dispose or to direct the disposition of 34,705
 - (iv) Shared power to dispose or to direct the disposition of 0

Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following. [].

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not

Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

See Exhibit B

Item 8. Identification and Classification of Members of the Group

Not applicable

Item 9. Notice of Dissolution of Group

Not applicable

Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 08, 2007

Date

/s/ Mark B. Kraske

Signature

Mark B. Kraske, VP Trust Operations Management Support Services

Name/Title

Exhibit A

EXPLANATORY NOTE

This Schedule 13G is filed by Wells Fargo & Company on its own behalf and on behalf of any subsidiaries listed in Exhibit B. Aggregate beneficial ownership reported by Wells Fargo & Company under Item 9 on page 2 is on a consolidated basis and includes any beneficial ownership separately reported herein by a subsidiary.

Exhibit B

The Schedule 13G to which this attachment is appended is filed by Wells Fargo & Company on behalf of the following subsidiaries:

Wells Capital Management Incorporated (1) Wells Fargo Funds Management, LLC (1) Peregrine Capital Management, Inc. (1) Lowry Hill Investment Advisors, Inc. (1) Wells Fargo Bank, National Association (2)

- (1) Classified as a registered investment advisor in accordance with Regulation 13d-1(b)(1)(ii)(E).
- (2) Classified as a bank in accordance with Regulation 13d 1(b)(1)(ii)(B).

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)

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