MoSys, Inc. Form SC 13G February 10, 2012

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934
(Amendment No) *
MOSYS, INC.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
619718109
(CUSIP Number)
December 31, 2011
(Date Of Event which Requires Filing of this Statement)

Check 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)
- * The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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 control number.

SEC 1745 (3-06)

CUSIP	No.6197181	09		13G	Page 2 o	f 8 Pages
1.			ING PERSON:	OF ABOVE PERSON:		
	Morgan St I.R.S. #3		5972			
2.	CHECK THE	APPRO	PRIATE BOX	IF A MEMBER OF A GRO	OUP:	
	(a) []					
	(b) []					
3.	SEC USE C	NLY:				
4.	CITIZENSH	IP OR	PLACE OF ORG	GANIZATION:		
	The state	of or	ganization	is Delaware.		
S	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		SOLE VOTING 2,175,430			
OW			SHARED VOT	ING POWER:		
P			SOLE DISPOS 2,344,520	SITIVE POWER:		
		8.	SHARED DISE	POSITIVE POWER:		
9.	AGGREGATE 2,344,520		T BENEFICIA	LLY OWNED BY EACH RI	EPORTING PERSON:	
10.	CHECK BOX	IF TH	IE AGGREGATE	AMOUNT IN ROW (9)	EXCLUDES CERTAIN S	HARES:
	[]					
11.	PERCENT C	F CLAS	S REPRESENTI	ED BY AMOUNT IN ROW	(9):	
12.	TYPE OF R	EPORTI	ING PERSON:			
CUSTP	No.6197181	0.9		13G	Page 3	of 8 Pages
			 ING PERSON:			
± •				OF ABOVE PERSON:		
	Morgan St		Smith Barney	y LLC		
2.	CHECK THE	APPRO	PRIATE BOX	IF A MEMBER OF A GRO	OUP:	

	(a) []		
	(b) []		
3.	SEC USE ON	LY:	
4.	CITIZENSH	P OR PLACE OF ORGANIZATION:	
	The state	of organization is Delaware.	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		5. SOLE VOTING POWER: 2,171,846	
		7. SOLE DISPOSITIVE POWER: 2,340,936	
		8. SHARED DISPOSITIVE POWER: 0	
	AGGREGATE 2,340,936	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:	
10.	CHECK BOX	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES:	
	[]		
	PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9):	
12.	TYPE OF RI BD	PORTING PERSON:	
CUSIP I	No.61971810	9 13G Page 4 of 8 Page	s
Item 1	. (a)	Name of Issuer:	
		MOSYS, INC.	
	(b)	Address of Issuer's Principal Executive Offices:	
		3301 OLCOTT STREET SANTA CLARA CA 95054	
Item 2	. (a)	Name of Person Filing:	
		(1) Morgan Stanley(2) Morgan Stanley Smith Barney LLC	
	(b)	Address of Principal Business Office, or if None, Residence:	
		(1) 1585 Broadway	

	Edgar Filing: MoSys, Inc Form SC 13G				
(2)	New York, NY 10036 1585 Broadway New York, NY 10036				
Cit	izenship:				
	The state of organization is Delaware. The state of organization is Delaware.				
Tit	le of Class of Securities:				
Com	mon Stock				
CUSIP Number:					
619	718109				
(]	(b) or (c), check whether the person filing is a: Broker or dealer registered under Section 15 of the Act (15 U.S.C. 780). Morgan Stanley & Co. Incorporated Bank as defined in Section 3(a)(6) of the Act				
	(15 U.S.C. 78c). Insurance company as defined in Section 3(a)(19) of the Ac				
J	(15 U.S.C. 78c).				
	Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).				
-	An investment adviser in accordance with Section 240.13d-1(b)(1)(ii)(E);				
	An employee benefit plan or endowment fund in accordance with Section $240.13d-1(b)(1)(ii)(F)$;				
	A parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G); Morgan Stanley				
	A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);				
	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);				
	Cit (1) (2) Tit Com CUS 6199 s s s8d-2				

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(j) [] Group, in accordance with Section 240.13d-1 (b) (1) (ii) (J).

Item 4. Ownership as of December 31, 2011.*

Item 3.

(a) Amount beneficially owned: See the response(s) to Item 9 on the attached cover page(s).

- (b) Percent of Class:
 See the response(s) to Item 11 on the attached cover page(s).
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: See the response(s) to Item 5 on the attached cover page(s).
 - (ii) Shared power to vote or to direct the vote:
 See the response(s) to Item 6 on the attached cover page(s).
 - (iii) Sole power to dispose or to direct the disposition of:
 See the response(s) to Item 7 on the attached cover page(s).
 - (iv) Shared power to dispose or to direct the disposition of: See the response(s) to Item 8 on the attached cover page(s).
- Item 5. Ownership of Five Percent or Less of a Class.

Not Applicable

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

Not Applicable

Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reported on By the Parent Holding Company.

See Exhibit 99.2

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.

* In Accordance with the Securities and Exchange Commission Release No. 34-39538 (January 12, 1998) (the "Release"), this filing reflects the securities beneficially owned, or that may be deemed to be beneficially owned, by certain operating units (collectively, the "MS Reporting Units") of Morgan Stanley and its subsidiaries and affiliates (collectively, "MS"). This filing does not reflect securities, if any, beneficially owned by any operating units of MS whose ownership of securities is disaggregated from that of the MS Reporting Units in accordance with the Release.

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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.

Date: February 10, 2012

Signature: /s/ Michael Lees

Name/Title: Michael Lees/Authorized Signatory, MORGAN STANLEY

MORGAN STANLEY

Date: February 10, 2012

Signature: /s/ Thomas Nelli

Name/Title: Thomas Nelli/Authorized Signatory, MORGAN STANLEY SMITH BARNEY LLC

MORGAN STANLEY SMITH BARNEY LLC

EXHIBIT NO.	EXHIBITS	PAGE
99.1	Joint Filing Agreement	7
99.2	Item 7 Information	8

^{*} Attention. Intentional misstatements or omissions of fact constitute federal criminal violations (see 18 U.S.C. 1001).

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EXHIBIT NO. 99.1 TO SCHEDULE 13G JOINT FILING AGREEMENT

February 10, 2012

MORGAN STANLEY and MORGAN STANLEY SMITH BARNEY LLC,

hereby agree that, unless differentiated, this

Schedule 13G is filed on behalf of each of the parties.

MORGAN STANLEY

BY: /s/ Michael Lees

Michael Lees/Authorized Signatory, MORGAN STANLEY

MORGAN STANLEY SMITH BARNEY LLC

BY: /s/ Thomas Nelli

Thomas Nelli/Authorized Signatory, MORGAN STANLEY SMITH BARNEY LLC

 * Attention. Intentional misstatements or omissions of fact constitute federal criminal violations (see 18 U.S.C. 1001).

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EXHIBIT NO. 99.2

ITEM 7 INFORMATION

The securities being reported on by Morgan Stanley as a parent holding company are owned, or may be deemed to be beneficially owned, by Morgan Stanley Smith Barney LLC, a broker dealer registered under Section 15 of the Securities Exchange Act of 1934, as amended.