### GEN PROBE INC Form SC 13G/A February 09, 2011

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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.4)\*

GEN PROBE INC

\_\_\_\_\_

(Name of Issuer)

Common Stock

-----

(Title of Class of Securities)

36866T103

\_\_\_\_\_

(CUSIP Number)

December 31, 2010

\_\_\_\_\_

(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)

13G Page 2 of 8 Pages CUSIP No.36866T103 \_\_\_\_\_ \_\_\_\_\_ 1. NAME OF REPORTING PERSON: I.R.S. IDENTIFICATION NO. OF ABOVE PERSON: Morgan Stanley I.R.S. #36-3145972 \_\_\_\_\_ 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP: (a) [ ] (b) [ ] \_\_\_\_\_ 3. SEC USE ONLY: \_\_\_\_\_ 4. CITIZENSHIP OR PLACE OF ORGANIZATION: The state of organization is Delaware. \_\_\_\_\_ NUMBER OF SHARES 5. SOLE VOTING POWER: SHARES 4,228,220 BENEFICIALLY ------OWNED BY 6. SHARED VOTING POWER: 0 EACH REPORTING \_\_\_\_\_ 7. SOLE DISPOSITIVE POWER: PERSON WITH: 4,343,944 \_\_\_\_\_ 8. SHARED DISPOSITIVE POWER: 0 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON: 4,343,944 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES: [ ] \_\_\_\_\_ \_\_\_\_\_ 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9): 9.0% \_\_\_\_\_ 12. TYPE OF REPORTING PERSON: HC, CO \_\_\_\_\_

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1. NAME OF REPORTING PERSON: I.R.S. IDENTIFICATION NO. OF ABOVE PERSON:

	Morgan Stanley Investment Management Inc. I.R.S. #13-3040307									
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP:									
	(a) []									
	(b) [	]								
3.	SEC US	SEC USE ONLY:								
4.	CITIZENSHIP OR PLACE OF ORGANIZATION:									
	The st	ate o	of org	anization is	Delaware.					
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		Y	5. SOLE VOTING POWER: 4,092,347							
			<pre>6. SHARED VOTING POWER:     0</pre>							
			<pre>7. SOLE DISPOSITIVE POWER:     4,208,071</pre>							
				SHARED DISPO 0	SITIVE POW					
9.	. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON: 4,208,071									
10.		BOX	IF THE	AGGREGATE AI	MOUNT IN F	ROW (9) EX	CLUDES	CERTAIN	SHARES:	
11.	[ ] PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9): 8.7%									
12.	TYPE C IA, CC		PORTIN	G PERSON:						
CUSIP	No.3686	6T103	3		13G			Page 4	l of 8 Pages	
Item 1	. (	(a)	Name of Issuer:							
			GEN PROBE INC							
	(	(b)	Address of Issuer's Principal Executive Offices:							
				10210 GENETIC CENTER DR SAN DIEGO CA 92121						
Item 2	. (	(a)	Name of Person Filing:							
				organ Stanle organ Stanle		ent Manage	ement In	c.		

(b) Address of Principal Business Office, or if None, Residence: (1) 1585 Broadway New York, NY 10036 (2) 522 Fifth Avenue New York, NY 10036 \_\_\_\_\_ (C) Citizenship: (1) The state of organization is Delaware. (2) The state of organization is Delaware. ------\_\_\_\_\_ Title of Class of Securities: (d) Common Stock \_\_\_\_\_ CUSIP Number: (e) 36866T103 \_\_\_\_\_ If this statement is filed pursuant to Sections 240.13d-1(b) or Ttem 3. 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. 78o). (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 Section 240.13d-1(b)(1)(ii)(E); Morgan Stanley Investment Management Inc. (f) [ ] An employee benefit plan or endowment fund in accordance with Section 240.13d-1(b)(1)(ii)(F); (g) [x] A parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G); Morgan Stanley (h) [ ] A savings association 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 Section 13d-1(b)(1)(ii)(J).

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- Item 4. Ownership as of December 31, 2010.\*
  - (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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	S	ignature.						
		best of my knowledge and k his statement is true, comp						
Date:	February 9, 2011							
Signature:	/s/ Michael Lees							
Name/Title:	Michael Lees/Authorized	Signatory, Morgan Stanley						
	MORGAN STANLEY							
Date:	February 9, 2011							
Signature:	/s/ Mary Ann Picciotto							
Name/Title:	Mary Ann Picciotto/Chief Compliance Officer, Morgan Stanley Investment Management Inc.							
	MORGAN STANLEY INVESTME	NT MANAGEMENT INC.						
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 9, 2011

\_\_\_\_\_

MORGAN STANLEY and MORGAN STANLEY INVESTMENT MANAGEMENT INC.,

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 INVESTMENT MANAGEMENT INC. BY: /s/ Mary Ann Picciotto Mary Ann Picciotto/Chief Compliance Officer, Morgan Stanley Investment Management Inc.

\* 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 Investment Management Inc., an investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E) as amended. Morgan Stanley Investment Management Inc. is a wholly-owned subsidiary of Morgan Stanley.