GEN PROBE INC Form SC 13G/A February 17, 2009

	OMB APPROVAL	
OMB Number	c:	3235-0145
Expires:	February	28, 2009
Estimated	average burder	ı
hours per	response	10.4

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No.1) *

GEN PROBE INC

(Name of Issuer)

Common Stock

(Title of Class of Securities)

36866T103

(CUSIP Number)

December 31, 2008

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

(Date Of Event which Requires Filing of this Statement)

- [x] Rule 13d-1(b)
- [] Rule 13d-1(c)
- [] Rule 13d-1(d)

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).

^{*} 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.

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.368	366T103	13G	Page 2 of 5 Pages
	OF REPORTING	IG PERSON: CATION NO. OF ABOVE PERSON:	
_	an Stanley S. #36-31459	72	
2. CHECK	K THE APPROF	RIATE BOX IF A MEMBER OF A G	ROUP:
(a)	[]		
(b)	[]		
3. SEC (JSE ONLY:		
4. CITI	ZENSHIP OR E	LACE OF ORGANIZATION:	
The s	state of org	anization is Delaware.	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		SOLE VOTING POWER: 3,564,594	
	Y 6.	SHARED VOTING POWER: 264	
	7.	SOLE DISPOSITIVE POWER: 3,690,615	
	8.	SHARED DISPOSITIVE POWER:	
	EGATE AMOUNT 0,615	BENEFICIALLY OWNED BY EACH	REPORTING PERSON:
10. CHECK	K BOX IF THE	AGGREGATE AMOUNT IN ROW (9)	EXCLUDES CERTAIN SHARES:
[]			
11. PERCI	ENT OF CLASS	REPRESENTED BY AMOUNT IN RO	W (9):
12. TYPE	OF REPORTING	IG PERSON:	
CUSIP No.368	866T103	13G	Page 3 of 5 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:		
	1	Morgan Stanley		
	(b)	Address of Principal Business Office, or if None, Residence:		
		1585 Broadway New York, NY 10036		
(c)	(c)	Citizenship:		
		The state of organization is Delaware.		
	(d)	Title of Class of Securities:		
	(Common Stock		
	(e)	CUSIP Number:		
		36866T103		
240		If this statement is filed pursuant to Sections 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. 780).		
	(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) [] An investment adviser in accordance with Sections 240.13d-1(b)(1)(ii)(E);		
	(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);		
	(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 240.13d-1(b)(1)(ii)(J).		

CUSIP No.36866T103 13-G Page 4 of 5 Pages

Item 4. Ownership as of December 31, 2008.*

- (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.

Not Applicable

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.

CUSIP No.36866T103 13-G Page 5 of 5 Pages

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 16, 2009

Signature: /s/ Dennine Bullard

Name/Title: Dennine Bullard/Authorized Signatory, Morgan Stanley

MORGAN STANLEY

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