GEN PROBE INC Form SC 13G February 12, 2010

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. n/a)*

Gen-Probe Incorporated

(Name of Issuer)

Common

(Title of Class of Securities)

36866T103

(CUSIP Number)

Calendar Year 2009

(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)

- o Rule 13d-1(c)
- o 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).

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

CUSIP No. 36866T103

NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) BAMCO INC /NY/

- 2
- (a) o
 - (b) x

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

New York

5

SOLE	VOTING	POWER
JOLL	101110	1000

		0
NUMBER OF SHARES BENEFICIALLY	6	SHARED VOTING POWER
OWNED BY EACH		2,265,500
REPORTING PERSON WITH:	7	SOLE DISPOSITIVE POWER
		0

SHARED DISPOSITIVE POWER

8

2,446,380

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,446,380

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11	5.0%
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	ΙΑ
	FOOTNOTES

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

CUSIP No. 36866T103

NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Baron Capital Group, Inc.

2

- (a) o
- (b) x

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

New York

5

SOLE VOTING POWER

		0
NUMBER OF SHARES BENEFICIALLY OWNED BY	6	SHARED VOTING POWER
EACH REPORTING		2,336,621
PERSON WITH:	7	SOLE DISPOSITIVE POWER
		0

SHARED DISPOSITIVE POWER

8

2,521,301

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,521,301

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11 12	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	5.1%
	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	НС

FOOTNOTES

CUSIP 36866T103 No.

NAMES OF REPORTING PERSONS 1 I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Baron Capital Management, Inc.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

2

(a) o

(b) x

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

SHARES

New York

SOLE VOTING POWER 5 0 NUMBER OF SHARED VOTING POWER **BENEFICIALLY** 6 OWNED BY 71,121

EACH REPORTING SOLE DISPOSITIVE POWER PERSON WITH: 7

0

SHARED DISPOSITIVE POWER

8

74,921

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

74,921

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11	0.2%
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	ΙΑ
	FOOTNOTES

CUSIP No. 36866T103

NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Ronald Baron

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

- 2
- (a) o
- (b) x

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

New York

5

SOLE VOTING POWER

		0
NUMBER OF SHARES BENEFICIALLY	6	SHARED VOTING POWER
OWNED BY EACH		2,336,621
REPORTING PERSON WITH:	7	SOLE DISPOSITIVE POWER
		0

SHARED DISPOSITIVE POWER

8

2,521,301

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

9

2,521,301

10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
	0
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
11	5.1%
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)
	IN
	FOOTNOTES

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Item 1.

,	(a) Name of Issuer Gen-Probe Incorporated
(b)	Address of Issuer's Principal Executive Offices 10210 Genetic Center Drive San Diego, CA 92121
Item 2.	
(a)	Name of Person Filing Baron Capital Group, Inc. ("BCG") BAMCO, Inc. ("BAMCO") Baron Capital Management, Inc. ("BCM") Ronald Baron
(b)	Address of Principal Business Office or, if none, Residence 767 Fifth Avenue, 49th Floor New York, NY 10153
BCG, BAMCO and BC	(c) Citizenship M are New York corporations. Ronald Baron is a citizen of the United States.
(d)	Title of Class of Securities Common
	CUSIP Number 36866T103
Item 3. If this statement is filed pu a:	rsuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is
(a) o	Broker or dealer registered under section 15 of the Act (15 U.S.C. 780).
(b) o	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
(c) o Insur	ance company as defined in section 3(a)(19) of the Act (15 U.S.C. o78c).
(d) o Investment company regis	tered 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) o An employee	benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
(g) x A parent hole	ding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
(h) o A savings associations as	defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);

(i) o 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) x Group, in accordance with 240.13d-1(b)(1)(ii)(J).

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Item 4.

Item 5.

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: 2,521,301
	(b) Percent of class: 5.1
(c)	Number of shares as to which the person has:
(i)	Sole power to vote or to direct the vote: 0
(ii)	Shared power to vote or to direct the vote: 2,336,621
(iii)	Sole power to dispose or to direct the disposition of: 0
(iv)	Shared power to dispose or to direct the disposition of: 2,521,301
	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 o.

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

The advisory clients of BAMCO and BCM have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Issuer's common stock in their accounts. To the best of the Filing Persons' knowledge, no such person has such interest relating to more than 5% of the outstanding class of securities.

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

BAMCO and BCM are subsidiaries of BCG. Ronald Baron owns a controlling interest in BCG.

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Please see Item 3.

Item 9.

Notice of Dissolution of Group

Not applicable.

Item Certification 10.

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.

By:

Baron Capital Group, Inc.

Date: February 12, 2010	

/s/ Ronald Baron Name: Ronald Baron Title: Chairman and CEO

BAMCO, Inc.

By:	/s/ Ronald Baron	
	Name: Ronald Baron	
	Title: Chairman and CEO	

Baron Capital Management, Inc.

Date: February 12, 2010

Date: February 12, 2010

By: /s/ Ronald Baron Name: Ronald Baron Title: Chairman and CEO

Ronald Baron

Date: February 12, 2010	By:	/s/ Ronald Baron
		Name: Ronald Baron
		Title: Individually

Footnotes:

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