

MERCURY COMPUTER SYSTEMS INC  
Form SC 13G  
February 14, 2012

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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. n/a)\*

Mercury Computer Systems, Inc.

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(Name of Issuer)

Common Stock

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(Title of Class of Securities)

589378108

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(CUSIP Number)

Calendar Year 2011

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(Date of Event Which Requires Filing of this Statement)

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

- 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).

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CUSIP No. 589378108

**1** NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  
BAMCO INC /NY/  
042741391

**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  
New York

**5** SOLE VOTING POWER  
0

NUMBER OF  
SHARES  
BENEFICIALLY **6**  
OWNED BY  
EACH  
REPORTING  
PERSON WITH:

**7** SHARED VOTING POWER  
1,750,000  
SOLE DISPOSITIVE POWER  
0

**8** SHARED DISPOSITIVE POWER  
1,750,000

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
1,750,000

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.72%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IA , CO

FOOTNOTES

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CUSIP No. 589378108

**1** NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  
Baron Capital Group, Inc.  
042741391

**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  
New York

**5** SOLE VOTING POWER  
0

NUMBER OF  
SHARES  
BENEFICIALLY **6**  
OWNED BY  
EACH  
REPORTING  
PERSON WITH:

SHARED VOTING POWER  
1,750,000  
**7** SOLE DISPOSITIVE POWER  
0

**8** SHARED DISPOSITIVE POWER  
1,750,000

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
1,750,000

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.72%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

HC , CO

FOOTNOTES

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CUSIP No. 589378108

**1** NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  
Baron Small Cap Fund  
042741391

**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  
New York

**5** SOLE VOTING POWER  
0

NUMBER OF  
SHARES  
BENEFICIALLY **6**  
OWNED BY  
EACH  
REPORTING  
PERSON WITH:

SHARED VOTING POWER  
1,750,000  
**7** SOLE DISPOSITIVE POWER  
0

**8** SHARED DISPOSITIVE POWER  
1,750,000

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
1,750,000

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.72%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IV

FOOTNOTES

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CUSIP No. 589378108

**1** NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  
Ronald Baron  
042741391

**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  
New York

**5** SOLE VOTING POWER  
0

NUMBER OF  
SHARES  
BENEFICIALLY **6**  
OWNED BY  
EACH  
REPORTING  
PERSON WITH:

SHARED VOTING POWER  
1,750,000  
**7** SOLE DISPOSITIVE POWER  
0

**8** SHARED DISPOSITIVE POWER  
1,750,000

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
1,750,000

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.72%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

HC , IN

FOOTNOTES

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Item 1.

- (a) Name of Issuer  
Mercury Computer Systems, Inc.
- (b) Address of Issuer's Principal Executive Offices  
199 Riverneck Road  
Chelmsford MA 01824

Item 2.

- (a) Name of Person Filing  
Baron Capital Group, Inc. ("BCG")  
BAMCO, Inc. ("BAMCO")  
Baron Capital Management, Inc. ("BCM")  
Ronald Baron  
Baron Small Cap Fund ("BSC")
- (b) Address of Principal Business Office or, if none, Residence  
767 Fifth Avenue, 49th Floor  
New York, NY 10153

(c) Citizenship  
BCG, BAMCO and BCM are New York corporations. Ronald Baron is a citizen of the United States. BSC is a series of a Massachusetts Business Trust.

- (d) Title of Class of Securities  
Common Stock

- (e) CUSIP Number  
589378108

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. 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)  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) 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) o A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J).
  - (k) o A group, in accordance with § 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:
-

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: 1,750,000
- (b) Percent of class: 5.72
- (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: 1,750,000
  - (iii) Sole power to dispose or to direct the disposition of: 0
  - (iv) Shared power to dispose or to direct the disposition of: 1,750,000

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 o .

N/A

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. BSC is an advisory client of BAMCO. Ronald Baron owns a controlling interest in BCG.

Item 8. Identification and Classification of Members of the Group

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.

**BAMCO, Inc.**

Date: February 14, 2012

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

**Baron Capital Group, Inc.**

Date: February 14, 2012

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

**Baron Small Cap Fund**

Date: February 14, 2012

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

**Ronald Baron**

Date: February 14, 2012

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)

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