

Speicher Charles A
Form 3
September 16, 2010

FORM 3

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

OMB APPROVAL

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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting
Person *

Â Speicher Charles A

(Last)

(First)

(Middle)

2. Date of Event Requiring
Statement

(Month/Day/Year)

09/14/2010

3. Issuer Name **and** Ticker or Trading Symbol

MERCURY COMPUTER SYSTEMS INC [MRCY]

4. Relationship of Reporting
Person(s) to Issuer

5. If Amendment, Date Original
Filed(Month/Day/Year)

(Check all applicable)

____ Director ____ 10% Owner
__X__ Officer ____ Other
(give title below) (specify below)
VP, Controller, and CAO

6. Individual or Joint/Group
Filing(Check Applicable Line)
__X__ Form filed by One Reporting
Person
____ Form filed by More than One
Reporting Person

201 RIVERNECK ROAD

(Street)

CHELMSFORD,Â MAÂ 01844

(City)

(State)

(Zip)

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security
(Instr. 4)

2. Amount of Securities
Beneficially Owned
(Instr. 4)

3. Ownership
Form:
Direct (D)
or Indirect
(I)
(Instr. 5)

4. Nature of Indirect Beneficial
Ownership
(Instr. 5)

No Shares Beneficially Owned

0

D

Â

Reminder: Report on a separate line for each class of securities beneficially
owned directly or indirectly.

SEC 1473 (7-02)

**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.**

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security
(Instr. 4)

2. Date Exercisable and
Expiration Date
(Month/Day/Year)

3. Title and Amount of
Securities Underlying
Derivative Security
(Instr. 4)

4. Conversion
or Exercise
Price of
Derivative
Security

5. Ownership
Form of
Derivative
Security:
Direct (D)
or Indirect

6. Nature of Indirect
Beneficial Ownership
(Instr. 5)

Date
Exercisable

Expiration
Date

Title

Amount or
Number of

Shares

(I)
(Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Speicher Charles A 201 RIVERNECK ROAD CHELMSFORD, MA 01844	Â	Â	Â VP, Controller, and CAO	Â

Signatures

Charles A.
Speicher

09/16/2010

__Signature of
Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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