
OMB APPROVAL

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U.S. SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 3

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(f) of the Investment Company Act of 1940

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1. Name and Address of Reporting Person

Johnsen Russell K.

(Last) (First) (Middle)

26 Great Pond Drive

Boxford MA (Street) 01921

(City) (State) (Zip)

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2. Date of Event Requiring Statement (Month/Day/Year)
1/15/2001
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3. IRS or Social Security Number of Reporting Person (Voluntary)
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4. Issuer Name and Ticker or Trading Symbol
Mercury Computer Systems, Inc. MRCY
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5 Relationship of Reporting Person to Issuer
(Check all applicable)
[X] Director [] 10% Owner
[] Officer (give title below) [] Other (specify below)

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6. If Amendment, Date of Original (Month/Year)
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Table I -- Non-Derivative Securities Beneficially Owned
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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)
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None None

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

(Print or Type Responses)

