1. Name and Address of Reporting Person

Mancuso, Vincent A.

(Last)               (First)                 (Middle)

12725 Maiden's Bower Drive

(Street)               (City)               (State)                 (Zip)

2. Date of Event Requiring Statement (Month/Day/Year)

1/29/98

3. IRS or Social Security Number of Reporting Person (Voluntary)

4. Issuer Name and Ticker or Trading Symbol

Mercury Computer Systems, Inc.   MRCY

5. Relationship of Reporting Person to Issuer

(Check all applicable)

[ ] Director
[X ] Officer (give title below)                    [ ] 10% Owner
[ ] Other (specify below)

Director of Government Electronics Group

6. If Amendment, Date of Original (Month/Year)

Table I -- Non-Derivative Securities Beneficially Owned

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Direct (D) or</td>
<td>Indirect (I) or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Beneficially Owned</td>
<td>Indirect Beneficial Ownership</td>
</tr>
</tbody>
</table>
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

(Print or Type Responses)

FORM 3 (continued)

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

<table>
<thead>
<tr>
<th>1. Title of Security</th>
<th>Exercisable Date</th>
<th>Amount</th>
<th>Price of Derivative:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Option <em>(right to buy)</em></td>
<td>1/27/07</td>
<td>25,000</td>
<td>4.00 D</td>
</tr>
</tbody>
</table>

Explanation of Responses:
*40% of this option is exercisable. The remainder vests in equal increments on January 27 of each of 1999, 2000 and 2001*

/s/G. Vincent Mancuso 1/29/98

**Signature of Reporting Person Date**

**Intentional misstatements or omissions of facts constitute Federal Criminal Violations.


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