**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**

   Berman, R. Schorr  
   (Last)               (First)                 (Middle)  
   18 Adams Street  
   (Street)  
   Lexington, MA   02173  
   (City)               (State)                 (Zip)  

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

   1/29/98

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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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<td>Direct (D) or Indirect (I)</td>
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Mr. Berman may be deemed to beneficially own 2,879,786 shares owed by MD Co., as to which he disclaims beneficial ownership except to the extent of his direct pecuniary interest. Mr. Berman is President of MDT Advisers, Inc., which manages the investments of MD Co.

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 (Instr. 4)</th>
<th>2. Date Exercisable (Instr. 4)</th>
<th>3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)</th>
<th>4. Conversion or Exercise Title or Number of Derivative Security</th>
<th>5. Ownership or Indirect Beneficial Ownership</th>
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Explanation of Responses:

(1) 25% of the option is exercisable. The remainder becomes exercisable in equal increments on July 30 of each of 1998, 1999 and 2000.

(2) The option is 25% exercisable. The remainder becomes exercisable in equal increments on September 30 of each of 1998, 1999 and 2000.

/s/ R.Schorr Berman

**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.