1. Name and Address of Reporting Person*  
OBRIEN WILLIAM K  
(First) (Middle) (Last)  
50 MINUTEMAN ROAD  
ANDOVER MA 01810  

2. Issuer Name and Ticker or Trading Symbol  
MERCURY SYSTEMS INC [ MRCY ]  

3. Date of Earliest Transaction (Month/Day/Year)  
09/12/2019  

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

5. Relationship of Reporting Person(s) to Issuer  
X Director 10% Owner  
Officer (give title below) Other (specify below)  

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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned  

<table>
<thead>
<tr>
<th>1. Title of Security (Instr. 3)</th>
<th>2. Transaction Date (Month/Day/Year)</th>
<th>3. Deemed Execution Date, if any (Month/Day/Year)</th>
<th>4. Transaction Code (Instr. 8)</th>
<th>5. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)</th>
<th>6. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)</th>
<th>7. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>8. Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>09/12/2019</td>
<td>S</td>
<td>1,563</td>
<td>D</td>
<td>$80.5701</td>
<td>53,991</td>
<td>I Power of Attorney(1)</td>
</tr>
<tr>
<td>Common Stock</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>1. Title of Derivative Security (Instr. 3)</th>
<th>2. Conversion or Exercise Price of Derivative Security</th>
<th>3. Transaction Date (Month/Day/Year)</th>
<th>4. Deemed Execution Date, if any (Month/Day/Year)</th>
<th>5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)</th>
<th>6. Date Exercisable and Expiration Date (Month/Day/Year)</th>
<th>7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)</th>
<th>8. Price of Derivative Security (Instr. 5)</th>
<th>9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)</th>
<th>10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>11. Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
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</tbody>
</table>

Explanation of Responses:  
1. Although Mr. O’Brien is neither a trustee nor a beneficiary of the family trust that held these shares, he holds a power of attorney to dispose of the shares and accordingly these shares are reported as being indirectly beneficially owned by Mr. O’Brien.  

Remarks:  

/s/ Michelle McCarthy,  
Attorney-in-Fact for OBRIEN WILLIAM K  
09/13/2019  

** Signature of Reporting Person Date  

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.  
* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).  
Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.  
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 Number.