JAN-JUNE 2020 BIOGEN POLITICAL CONTRIBUTIONS DISCLOSURES

TRADE ASSOCIATION MEMBERSHIP DUES ATTRIBUTED TO LOBBYING

<table>
<thead>
<tr>
<th>TRADE ASSOCIATION - AMOUNT OF 2020 ANNUAL DUES PAID TO DATE ATTRIBUTED TO LOBBYING</th>
<th>JANUARY TO JUNE 2020</th>
<th>JULY TO DECEMBER 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmaceutical Research and Manufacturers of America (PhRMA)</td>
<td>$2,079,645</td>
<td></td>
</tr>
<tr>
<td>Biotechnology Innovation Organization (BIO)</td>
<td>$206,674</td>
<td></td>
</tr>
<tr>
<td>Massachusetts Biotechnology Council (MassBIO)</td>
<td>$11,055</td>
<td></td>
</tr>
</tbody>
</table>

Trade associations listed are those to which we paid $25,000 or more in annual dues in 2020. Amounts attributed to lobbying have been identified by those organizations as non-deductible under Section 162(e) (1).

CONTRIBUTIONS TO SECTION 527 POLITICAL ORGANIZATIONS & BALLOT COMMITTEES

<table>
<thead>
<tr>
<th>RECIPIENT</th>
<th>JANUARY TO JUNE 2020</th>
<th>JULY TO DECEMBER 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOCOM PAC</td>
<td>$860</td>
<td></td>
</tr>
<tr>
<td>Democratic Legislative Campaign Committee</td>
<td>$25,000*</td>
<td></td>
</tr>
<tr>
<td>PhRMA PAC</td>
<td>$7,800</td>
<td></td>
</tr>
<tr>
<td>Republican Lieutenant Governors Association</td>
<td>$10,000</td>
<td></td>
</tr>
</tbody>
</table>

*Exclusive of conference attendance fees for 527 organizations, where such fees do not exceed $5,000.

CORPORATE CONTRIBUTIONS TO POLITICAL CANDIDATES, PARTIES AND COMMITTEES

There were no corporate contributions to political candidates, parties or committees during this period.