## **CERTIFICATION**

I, Kenneth C. Frazier, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Merck & Co., Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material

fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading

with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present

in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods

presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and

procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined

in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed

under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries,

is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to

be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our

conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this

report based on such evaluation; and

d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during

the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has

materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control

over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons

performing the equivalent functions):

a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial

reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report

financial information; and

b) Any fraud, whether or not material, that involves management or other employees who have a significant role in

the registrant's internal control over financial reporting.

Date: May 8, 2019

By: /s/ Kenneth C. Frazier

## Section 1350 Certification of Chief Executive Officer

Pursuant to 18 U.S.C. Section 1350, the undersigned officer of Merck & Co., Inc. (the "Company"), hereby certifies that the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2019 (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 8, 2019 /s/ Kenneth C. Frazier

Name: KENNETH C. FRAZIER

Title: Chairman, President and Chief Executive Officer