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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 10-K/A**  
(Amendment No. 1)

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**ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the fiscal year ended September 29, 2017

OR

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number: 001-35451

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**MACOM Technology Solutions Holdings, Inc.**  
(Exact name of registrant as specified in its charter)

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Delaware  
(State or other jurisdiction of  
incorporation or organization)

27-0306875  
(I.R.S. Employer  
Identification No.)

100 Chelmsford Street, Lowell, Massachusetts  
(Address of principal executive offices)

01851  
(Zip Code)

Registrant's telephone number, including area code: (978) 656-2500

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class  
Common Stock, par value \$0.001 per share

Name of Each Exchange on Which Registered  
NASDAQ Global Select Market

Securities registered pursuant to Section 12(g) of the Act: None

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Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.  Yes  No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act.  Yes  No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.  Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).  Yes  No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer", "accelerated filer", "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer   
Non-accelerated filer  (Do not check if a smaller reporting company) Smaller reporting company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).  Yes  No

The aggregate market value of the registrant's common stock held by non-affiliates of the registrant as of March 31, 2017, the last business day of the registrant's second fiscal quarter, was approximately \$2.1 billion based on the closing price of the registrant's common stock as of such date as reported on the NASDAQ Global Select Market. For purposes of the foregoing calculations only, shares of common stock held by each executive officer and director of the registrant and their respective affiliates have been excluded, as such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

The number of outstanding shares of the registrant's common stock, par value \$0.001 per share, as of November 10, 2017 was 64,263,802.

#### **DOCUMENTS INCORPORATED BY REFERENCE**

Part III incorporates certain information by reference from the registrant's definitive proxy statement for the 2018 Annual Meeting of Stockholders, which will be filed no later than 120 days after the close of the registrant's fiscal year ended September 29, 2017.

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**MACOM TECHNOLOGY SOLUTIONS HOLDINGS, INC.**  
**ANNUAL REPORT ON FORM 10-K/A**  
**FOR THE FISCAL YEAR ENDED SEPTEMBER 29, 2017**  
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## EXPLANATORY NOTE

In this Amendment No. 1 to the Annual Report on Form 10-K/A (this “Amendment”) for the fiscal year ended September 29, 2017, MACOM Technology Solutions Holdings, Inc. (the “Company”) amends the Form 10-K filed with the Securities and Exchange Commission on November 15, 2017 (the “Original Form 10-K”). This Amendment updates Part II, “Item 9A. Controls and Procedures” of the Original Form 10-K to (i) remove the qualification regarding the Company’s acquisition of Applied Micro Circuits Corporation from (a) the scope of management’s evaluation of the effectiveness of our disclosure controls and procedures and (b) the Audit Report of Deloitte & Touche LLP regarding the Company’s internal control over financial reporting, and (ii) amends management’s conclusion regarding the effectiveness of the Company’s disclosure controls and procedures. We have included the entire text, as amended, of Part II, “Item 9A. Controls and Procedures” in this Amendment.

In addition, as required by Rule 12b-15 under the Securities Exchange Act of 1934, as amended, new certifications by the Company’s principal executive officer and principal financial officer are filed as exhibits to this Amendment under Part IV, “Item 15. Exhibits, Financial Statement Schedules” hereof.

Except as set forth above, this Amendment does not modify or update other disclosures in the Original Form 10-K. This Amendment does not reflect events occurring after the filing date of the Original Form 10-K. This Amendment should be read in conjunction with the Original Form 10-K.

In this document, the words “Company,” “we,” “our,” “us,” and similar terms refer only to MACOM Technology Solutions Holdings, Inc. and its consolidated subsidiaries, and not any other person or entity.

## PART II

### ITEM 9A. CONTROLS AND PROCEDURES.

#### Evaluation of Disclosure Controls and Procedures

We maintain disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended (the Exchange Act), that are intended to ensure that information that would be required to be disclosed in Exchange Act reports is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including the Principal Executive Officer and the Principal Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

An evaluation was performed, under the supervision, and with the participation of our management, including our Principal Executive Officer and Principal Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures as of September 29, 2017. Based on this evaluation, our Principal Executive Officer and Principal Financial Officer concluded that our disclosure controls and procedures were effective as of September 29, 2017.

#### Management's Annual Report on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is defined in Rule 13a-15(f) or 15d-15(f) promulgated under the Securities Exchange Act of 1934 as a process designed by, or under the supervision of, the company's principal executive and principal financial officers and effected by the company's board of directors, management and other personnel, 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 and includes those policies and procedures that:

- Pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the company;
- Provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and,
- Provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Our management assessed the effectiveness of our internal control over financial reporting as of September 29, 2017. In making this assessment, the company's management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control-Integrated 2013 Framework.

Based on this assessment, our management concluded that, as of September 29, 2017, our internal control over financial reporting is effective based on those criteria.

The effectiveness of our internal control over financial reporting as of September 29, 2017 has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their report which is included herein.

#### Changes in Internal Control over Financial Reporting

There have been no changes in the Company's internal control over financial reporting that occurred during the Company's fiscal quarter ended September 29, 2017 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

**Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Stockholders of  
MACOM Technology Solutions Holdings, Inc.  
Lowell, Massachusetts

We have audited the internal control over financial reporting of MACOM Technology Solutions Holdings, Inc. and subsidiaries (the “Company”) as of September 29, 2017, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. The Company’s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying “Management’s Annual Report on Internal Control Over Financial Reporting” appearing at Item 9A. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit.

We conducted our audit in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

A company’s internal control over financial reporting is a process designed by, or under the supervision of, the company’s principal executive and principal financial officers, or persons performing similar functions, and effected by the company’s board of directors, management, and other personnel 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. A company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. Also, projections of any evaluation of the effectiveness of the internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of September 29, 2017, based on the criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the consolidated balance sheets of MACOM Technology Solutions Holdings, Inc. and subsidiaries as of September 29, 2017 and September 30, 2016, and the related consolidated statements of operations, comprehensive (loss) income, stockholders’ equity, and cash flows for each of the three fiscal years in the period ended September 29, 2017 of the Company and our report dated November 15, 2017 (not included herein) expressed an unqualified opinion on those financial statements.

/s/ Deloitte & Touche LLP  
Boston, Massachusetts  
November 15, 2017

**PART IV**

**ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES.**

The following information required under this item (other than Exhibits 23.2, 31.3 and 31.4) was filed as part of the Original Form 10-K.

(a) Financial Statements:

Report of Independent Registered Public Accounting Firm  
Consolidated Balance Sheets as of September 29, 2017 and September 30, 2016  
Consolidated Statements of Operations for the Fiscal Years Ended September 29, 2017, September 30, 2016 and October 2, 2015  
Consolidated Statements of Stockholders' Equity and Comprehensive (Loss) Income for the Fiscal Years Ended September 29, 2017, September 30, 2016 and October 2, 2015  
Consolidated Statements of Cash Flows for the Fiscal Years September 29, 2017, September 30, 2016 and October 2, 2015  
Notes to Consolidated Financial Statements

(b) Exhibits

<u>Exhibit Number</u>	<u>Description</u>
2.1	<a href="#">Purchase Agreement by and among MACOM Connectivity Solutions, LLC, Project Denver Holdings LLC, and MACOM Technology Solutions Holdings, Inc., dated October 27, 2017 (incorporated by reference to Exhibit 2.1 to our Current Report on Form 8-K filed on October 27, 2017).</a>
3.1	<a href="#">Fifth Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to our Current Report on Form 8-K filed on June 2, 2016).</a>
3.2	<a href="#">Third Amended and Restated Bylaws (incorporated by reference to Exhibit 3.2 to our Current Report on Form 8-K filed on June 2, 2016).</a>
4.1	<a href="#">Specimen of Common Stock Certificate (incorporated by reference to Exhibit 4.1 to Amendment No. 4 to our Registration Statement on Form S-1 (File No. 333-175934) filed on November 23, 2011).</a>
4.2	<a href="#">Form of Common Stock Purchase Warrant issued on December 21, 2010 (incorporated by reference to Exhibit 4.3 our Registration Statement on Form S-1 (File No. 333-175934) filed on August 1, 2011).</a>
4.3	<a href="#">Second Amended and Restated Investor Rights Agreement, dated February 28, 2012 (incorporated by reference to Exhibit 4.2 to Amendment No. 6 to our Registration Statement on Form S-1 (File No. 333-175934) filed on February 28, 2012).</a>
4.4	<a href="#">First Amendment to the Second Amended and Restated Investor Rights Agreement, dated May 20, 2013 (incorporated by reference to Exhibit 4.5 to our Registration Statement on Form S-3 (File No. 333-188728) filed on May 21, 2013).</a>
4.5	<a href="#">Second Amendment to the Second Amended and Restated Investor Rights Agreement, dated February 2, 2015 (incorporated by reference to Exhibit 4.5 to our Registration Statement on Form S-3 ASR (File No. 333-201827) filed on February 2, 2015).</a>
10.1*	<a href="#">Form of Indemnification Agreement between MACOM Technology Solutions Holdings, Inc. and each of its directors and executive officers (incorporated by reference to Exhibit 10.1 to Amendment No. 3 to our Registration Statement on Form S-1 (File No. 333-175934) filed on October 21, 2011).</a>
10.2	<a href="#">MACOM Technology Solutions Holdings, Inc. Amended and Restated 2009 Omnibus Stock Plan, as amended (incorporated by reference to Exhibit 10.2 to our Annual Report on Form 10-K filed on November 28, 2012).</a>
10.3	<a href="#">Form of Incentive Stock Option Agreement under the MACOM Technology Solutions Holdings, Inc. 2009 Omnibus Stock Plan (incorporated by reference to Exhibit 10.3 to our Registration Statement on Form S-1 (File No. 333-175934) filed on August 1, 2011).</a>
10.4*	<a href="#">Form of Restricted Stock Agreement under the MACOM Technology Solutions Holdings, Inc. 2009 Omnibus Stock Plan (incorporated by reference to Exhibit 10.4 to our Registration Statement on Form S-1 (File No. 333-175934) filed on August 1, 2011).</a>
10.5*	<a href="#">MACOM Technology Solutions Holdings, Inc. 2012 Omnibus Incentive Plan, as amended (incorporated by reference to Exhibit 10.5 to our Annual Report on Form 10-K filed on November 28, 2012).</a>

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- 10.6\* [Form of Restricted Stock Unit Award Agreement under 2012 Omnibus Incentive Plan \(Time-Based and Performance-Based\) \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on April 27, 2015\).](#)
- 10.7\* [Form of Nonqualified Stock Option Agreement under 2012 Omnibus Incentive Plan \(Performance-Based\) \(incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on April 27, 2015\).](#)
- 10.8\* [MA-COM Technology Solutions Holdings, Inc. 2012 Employee Stock Purchase Plan, as amended. \(incorporated by reference to Exhibit 10.4 to our Quarterly Report on Form 10-Q filed on February 2, 2015\).](#)
- 10.9\* [Offer of Employment Letter to Michael Murphy, dated September 28, 2009, as amended \(incorporated by reference to Exhibit 10.13 to our Registration Statement on Form S-1 \(File No. 333-175934\) filed on August 1, 2011\).](#)
- 10.10\* [Offer of Employment to John Croteau, dated September 6, 2012 \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on September 7, 2012\).](#)
- 10.11\* [Offer of Employment to Robert McMullan, dated December 11, 2013 \(incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on December 16, 2013\).](#)
- 10.12\* [Offer of Promotion and Revised Terms of Employment Letter, dated September 24, 2013, between MACOM Technology Solutions Inc. and Robert Dennehy \(incorporated by reference to Exhibit 10.1 to our Quarterly Report on Form 10-Q filed on February 2, 2015\).](#)
- 10.13\* [Offer of Employment Letter, dated as of December 11, 2013, between MACOM Technology Solutions Inc. and Preetinder Virk \(incorporated by reference to Exhibit \(d\)\(8\) to Amendment No. 4 to our Tender Offer Statement on Schedule TO filed with the SEC on December 11, 2013\).](#)
- 10.14\* [Credit Agreement by and among MACOM Technology Solutions Holdings, Inc., Goldman Sachs Bank USA, as Administrative Agent, Collateral Agent, Swing Line Lender and an L/C Issuer, and the other agents and lenders party thereto, dated May 8, 2014 \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on May 12, 2014\).](#)
- 10.15 [Incremental Amendment, dated February 13, 2015, among Morgan Stanley Senior Funding, Inc., MACOM Technology Solutions Holdings, Inc., and Goldman Sachs Bank USA \(incorporated by reference to Exhibit 10.1 to our Quarterly Report on Form 10-Q filed on May 13, 2015\).](#)
- 10.16 [Form of Restricted Stock Award Agreement under 2012 Omnibus Incentive Plan \(incorporated by reference to Exhibit 10.1 to our Quarterly Report on Form 10-Q filed on August 12, 2015\).](#)
- 10.17\* [Consulting Agreement, dated July 16, 2015, among MACOM Technology Solutions Inc., MACOM Auto Solutions Inc. and Autoliv ASP Inc. \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on July 17, 2015\).](#)
- 10.18 [Purchase and Sale Agreement and Escrow Instructions by and between MACOM Technology Solutions Inc., and Calare Properties, Inc., dated May 23, 2016 \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on June 2, 2016\).](#)
- 10.19 [Incremental Term Loan Amendment, dated August 31, 2016, by and among MACOM Technology Solutions Holdings, Inc., Goldman Sachs Bank USA, as the administrative agent, and the lender party thereto \(incorporated by reference to our Current Report on Form 8-K filed August 31, 2016\).](#)
- 10.20 [First, Second and Third Amendments to Purchase And Sale Agreement and Escrow Instructions by and between MACOM Technology Solutions Inc. and Calare Properties, Inc. dated July 22, 2016, September 20, 2016 and September 22, 2016, respectively \(incorporated by reference to Exhibit 10.23 to our Annual Report on Form 10-K filed on November 17, 2016\).](#)
- 10.21 [Lease Agreement for 100 Chelmsford Street by and between MACOM Technology Solutions Holdings, Inc., CPI 100 Chelmsford, LLC and CPI 144 Chelmsford, LLC, dated December 28, 2016 \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on January 5, 2017\).](#)
- 10.22 [Lease Agreement for 144 Chelmsford Street by and between MACOM Technology Solutions Holdings, Inc., CPI 100 Chelmsford, LLC and CPI 144 Chelmsford, LLC, dated December 28, 2016 \(incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on January 5, 2017\).](#)
- 10.23 [MACOM Technology Solutions Holdings, Inc. Amended and Restated Change in Control Plan and Form of Participation Notice, amended and restated on February 11, 2017 \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on February 16, 2017\).](#)
- 10.24 [Second Incremental Amendment, dated as of March 10, 2017, by and among MACOM Technology Solutions Holdings, Inc., Barclays Bank PLC and Goldman Sachs Bank USA, as Administrative Agent \(incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on March 13, 2017\).](#)
- 10.25 [Amendment No. 4 to Credit Agreement, dated as of March 10, 2017, by and among MACOM Technology Solutions Holdings, Inc., the revolving credit lenders and Goldman Sachs Bank USA, as Administrative Agent \(incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on March 13, 2017\).](#)
- 10.26 [Refinancing Amendment, dated as of March 10, 2017, by and among MACOM Technology Solutions Holdings, Inc., the lenders party thereto and Goldman Sachs Bank USA, as Administrative Agent \(incorporated by reference to Exhibit 10.3 to our Current Report on Form 8-K filed on March 13, 2017\).](#)

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10.27	<a href="#"><u>Second Refinancing Amendment, dated as of May 19, 2017, by and among MACOM Technology Solutions Holdings, Inc., Morgan Stanley Senior Funding, Inc. and the other term lenders party thereto and Goldman Sachs Bank USA, as Administrative Agent (incorporated by reference to Exhibit 10.1 to our Current Report on Form 8-K filed on May 19, 2017).</u></a>
10.28	<a href="#"><u>Second Incremental Term Loan Amendment, dated as of May 19, 2017, by and among MACOM Technology Solutions Holdings, Inc., Morgan Stanley Senior Funding, Inc., as the initial lender, and Goldman Sachs Bank USA, as Administrative Agent (incorporated by reference to Exhibit 10.2 to our Current Report on Form 8-K filed on May 19, 2017).</u></a>
21.1	<a href="#"><u>Subsidiaries of Registrant (incorporated by reference to Exhibit 21.1 to our Annual Report on Form 10-K filed on November 15, 2017).</u></a>
23.1	<a href="#"><u>Consent of Deloitte &amp; Touche LLP (incorporated by reference to Exhibit 23.1 to our Annual Report on Form 10-K filed on November 15, 2017).</u></a>
23.2	<a href="#"><u>Consent of Deloitte &amp; Touche LLP.</u></a>
31.1	<a href="#"><u>Certification of Principal Executive Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended (incorporated by reference to Exhibit 31.1 to our Annual Report on Form 10-K filed on November 15, 2017).</u></a>
31.2	<a href="#"><u>Certification of Principal Financial Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended (incorporated by reference to Exhibit 31.2 to our Annual Report on Form 10-K filed on November 15, 2017).</u></a>
31.3	<a href="#"><u>Certification of Principal Executive Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended.</u></a>
31.4	<a href="#"><u>Certification of Principal Financial Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended.</u></a>
32.1	<a href="#"><u>Certification of Principal Executive Officer and Principal Financial Officer Required Under Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended, and 18 U.S.C. §1350 (incorporated by reference to Exhibit 32.1 to our Annual Report on Form 10-K filed on November 15, 2017).</u></a>
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Calculation Linkbase Document
101.DEF	XBRL Taxonomy Definition Linkbase Document
101.LAB	XBRL Taxonomy Label Linkbase Document
101.PRE	XBRL Taxonomy Presentation Linkbase Document

\* Management contract or compensatory plan.

**SIGNATURES**

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Amendment No. 1 to the Annual Report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: April 23, 2018

MACOM TECHNOLOGY SOLUTIONS  
HOLDINGS, INC.  
Registrant

By: /s/ John Croteau  
John Croteau  
President and Chief Executive Officer

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in Registration Statements No. 333-216406, No. 333-209610, No. 333-193098, and No. 333-180219 on Form S-8 and Registration Statements No. 333-201827 and No. 333-188728 on Form S-3 and Registration Statement No. 333-215224 on Form S-4 of our report dated November 15, 2017, relating to the effectiveness of MACOM Technology Solutions Holdings, Inc.'s internal control over financial reporting, appearing in this Annual Report on Form 10-K/A of MACOM Technology Solutions Holdings, Inc. for the year ended September 29, 2017.

*/s/ Deloitte & Touche LLP*

Boston, Massachusetts

April 23, 2018

## CERTIFICATION OF THE CEO PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, John Croteau, certify that:

1. I have reviewed this Amendment No. 1 to the Annual Report on Form 10-K of MACOM Technology Solutions Holdings, 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. The registrant's other certifying officer 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
4. The registrant's other certifying officer 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: 4/23/2018

/s/ John Croteau

John Croteau  
President and Chief Executive Officer  
Director

## CERTIFICATION OF THE CFO PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Robert J. McMullan, certify that:

1. I have reviewed this Amendment No. 1 to the Annual Report on Form 10-K of MACOM Technology Solutions Holdings, 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. The registrant's other certifying officer 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
4. The registrant's other certifying officer 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: 4/23/2018

/s/ Robert J. McMullan

Robert J. McMullan  
Senior Vice President and  
Chief Financial Officer