AVIAT NETWORKS, INC. Form SC 13G/A February 13, 2019

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 1)\*

|                        |  | AVIAT NETWORKS, INC.                                 |  |
|------------------------|--|--|--|
|                        | (Name  | of Issuer)   |  |
|                        | Common   | Stock  |  |
|                        | (Title of Cla  | ss of Securities)                                    |  |
|                        |  | 05366Y201  |  |
|                        | (CUSIP   | Number) December 31, 2018                            |  |
|                        | (Date of Event Which R   | equires Filing of this S                             | tatement)                              |
| Check the Schedule i   | appropriate box to designate s filed:  | the rule pursuant to wh                              | ich this                               |
| [X] R                  | ule 13d-1(b)   |  |  |
| [_] R                  | ule 13d-1(c)   |  |  |
| [_] R                  | ule 13d-1(d)   |  |  |
| initial f<br>and for a | nder of this cover page shal<br>iling on this form with resp<br>ny subsequent amendment cont<br>osures provided in a prior c | ect to the subject class<br>aining information which | of securities,                         |
| deemed to 3            | ation required in the remain be "filed" for the purpose of ("Act") or otherwise subject to all tes).                         | f Section 18 of the Secu<br>ct to the liabilities of | rities Exchange<br>that section        |
| CUSIP NO.              | 05366Y201  | 13G  | ====================================== |
| , ,                    | S OF REPORTING PERSONSS. IDENTIFICATION NOS. OF A  | BOVE PERSONS (entities o                             | nly).                                  |
| Rena                   | issance Technologies LLC   | 26-0385758   |  |
| (2) CHECK              | THE APPROPRIATE BOX IF A ME  | MBER OF A GROUP (SEE INS                             | TRUCTIONS):                            |

|                                | (b) [_]   |                  |          |                                |
|--------------------------------|---|------------------|----------|--------------------------------|
| (3)                            | SEC USE ONLY  |                  |          |                                |
| (4)                            | CITIZENSHIP OR PLACE OF ORG   | ANIZATION        |          |                                |
|                                | NUMBER OF SHARES BENEFICIALLY OWNED   |                  |          | SOLE VOTING POWER 296,002      |
| BY EACH REPORTING PERSON WITH: |   |                  | (6)      | SHARED VOTING POWER 0          |
|                                |   |                  | (7)      | SOLE DISPOSITIVE POWER 296,003 |
|                                |   |                  | (8)      | SHARED DISPOSITIVE POWER       |
| (9)                            | AGGREGATE AMOUNT BENEFICIA  | LLY OWNED BY EAC | H REI    | PORTING PERSON                 |
| (10)                           | CHECK BOX IF THE AGGREGATE (SEE INSTRUCTIONS)   | AMOUNT IN ROW (  | <br>9) E | XCLUDES CERTAIN SHARES         |
| (11)                           | PERCENT OF CLASS REPRESEN   | TED BY AMOUNT IN | ROW      | (9)                            |
| (12)                           | TYPE OF REPORTING PERSON (  | SEE INSTRUCTIONS | )        |                                |
|                                |   | Page 2 of 8 page |          |                                |
|                                |   | Page 3 of 8 page | es       |                                |
|                                | IP NO. 05366Y201  | 13G              |          | Page 3 of 8 Page:              |
| (1)                            | NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS                                  |                  | NS (I    | ENTITIES ONLY).                |
|                                | RENAISSANCE TECHNOLOGIES H  | OLDINGS CORPORAT | ION      | 13-3127734                     |
| (2)                            | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)  (a) [_]  (b) [_] |                  |          |                                |
| (3)                            | SEC USE ONLY  |                  |          |                                |

| (4) CITIZENSHIP OR PLACE OF ORC                    | GANIZATION   |
|--|--|
| Delaware   |  |
| NUMBER OF SHARES BENEFICIALLY OWNED                | (5) SOLE VOTING POWER 296,002  |
| BY EACH REPORTING PERSON WITH:                     | (6) SHARED VOTING POWER 0  |
|  | (7) SOLE DISPOSITIVE POWER 296,003   |
|  | (8) SHARED DISPOSITIVE POWER   |
|  | ALLY OWNED BY EACH REPORTING PERSON  |
| (10) CHECK BOX IF THE AGGREGATI (SEE INSTRUCTIONS) | E AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  |
| (11) PERCENT OF CLASS REPRESE                      | NTED BY AMOUNT IN ROW (9)  |
|  | 5.46 %   |
| (12) TYPE OF REPORTING PERSON                      | (SEE INSTRUCTIONS)   |
| =======================================            | Page 3 of 8 pages  |
| CUSIP NO. 05366Y201                                | 13G Page 4 of 8 Page:  |
| (a) Name of Issuer                                 |  |
| AVIAT NETWORKS, INC.                               |  |
| (b) Address of Issuer's Pr                         | incipal Executive Offices.   |
| 860 N. McCarthy Blvd.                              | , Suite 200, Milpitas, California 95035  |
| Item 2.  |  |
| (a) Name of Person Filing:                         |  |
|  | being filed by Renaissance Technologies LLC ce Technologies Holdings Corporation ("RTHC"). |

(b) Address of Principal Business Office or, if none, Residence.

The principal business address of the reporting persons is:

800 Third Avenue New York, New York 10022

(c) Citizenship.

RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.

(d) Title of Class of Securities.

Common Stock

(e) CUSIP Number.

05366Y201

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- Item 3. If this statement is filed pursuant to Rule 13d-1(b) or 13-d-2(b) or (c), check whether the person filing is a:
- (a) [\_] Broker or dealer registered under section 15 of the Act.
- (b) [\_] Bank as defined in section 3(a)(6) of the Act.
- (c) [\_] Insurance Company as defined in section 3(a)(19) of the Act.
- (d) [\_] Investment Company registered under section 8 of the Investment Company Act.
- (e) [x] Investment Adviser in accordance with Sec.240.13d-1(b) (1) (ii) (E).
- (f) [\_] Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1 (b) (1) (ii) (F).
- (g) [\_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h)  $[\_]$  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) [\_] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940.
- (j) [\_] Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

(a) Amount beneficially owned.

RTC: 296,012 shares

RTHC: 296,012 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 5.46 % RTHC: 5.46 %

- (c) Number of shares as to which the person has:
  - (i) sole power to vote or to direct the vote:

RTC: 296,002 RTHC: 296,002

(ii) Shared power to vote or to direct the vote: 0

(iii) sole power to dispose or to direct the disposition of:

RTC: 296,003 RTHC: 296,003

(iv) Shared power to dispose or to direct the disposition of:

RTC: 9 RTHC: 9

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\_\_\_\_\_\_

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: [\_]

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Not applicable

Item 8. Identification and Classification of Members of the Group.

Not applicable

Item 9. Notice of Dissolution of a Group.

Not applicable

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Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

\_\_\_\_\_\_

#### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 12, 2019

Renaissance Technologies LLC

By: /s/ Mark Silber

Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See  $18\ U.S.C.\ 1001$ ).

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EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the shares of Common Stock of AVIAT NETWORKS, INC.

Date: February 12, 2019

Renaissance Technologies LLC

By: /s/ Mark Silber
Executive Vice President

Renaissance Technologies Holdings Corporation

By: /s/ Mark Silber Vice President

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