(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to Rule 13d-2.

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

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

| Applied Materials, Inc. | |
|---|---|
| (Name of Issuer) | - |
| Common Stock | |
| (Title of Class of Securities) | |
| 038222105 | |
| (CUSIP Number) | |
| December 31, 2015 | |
| (Date of Event Which Requires Filing of this Statement) | |

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- [X] Rule 13d-1(b)
- [_] Rule 13d-1(c)
- [_] Rule 13d-1(d)

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

^{*} The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

| CUS | IP No. | 038222105 13G | | | | |
|--|--|---|-------|--|--|--|
| 1 | | REPORTING PERSON Partners Limited Partnership | | | | |
| 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) (a | | | | | | |
| | Not App | licable |) [_] | | | |
| 3 | SEC USE | ONLY | | | | |
| 4 | CITIZENS Delawar | HIP OR PLACE OF ORGANIZATION | | | | |
| ; | MBER OF SHARES | 5 SOLE VOTING POWER None | | | | |
| 0 | EFICIALLY WNED BY EACH PORTING PERSON WITH | 6 SHARED VOTING POWER 12,692,075 | | | | |
| | | 7 SOLE DISPOSITIVE POWER None | | | | |
| | | 8 SHARED DISPOSITIVE POWER 14,666,350 | | | | |
| 9 | AGGREGAT 14,666, | E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | | |
| 10 | (see Ins | X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES tructions) licable | [_] | | | |
| 11 | 1.3% | OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | | | | |
| 12 | TYPE OF (see Ins IA | REPORTING PERSON tructions) | | | | |
| | | | | | | |

| CUSIP No. 038 | 3222105 136 | |
|-----------------------------|--|----------------|
| | EPORTING PERSON Investments GP LLC | |
| 2 CHECK THE (see Instr | APPROPRIATE BOX IF A MEMBER OF A GROUP (a |) [_]) [_] |
| Not Appli | |) L_J |
| 3 SEC USE ON | | |
| Delaware | IP OR PLACE OF ORGANIZATION | |
| NUMBER OF SHARES | 5 SOLE VOTING POWER None | |
| BENEFICIALLY OWNED BY EACH | 6 SHARED VOTING POWER 12,692,075 | |
| REPORTING PERSON WITH | 7 SOLE DISPOSITIVE POWER None | |
| | 8 SHARED DISPOSITIVE POWER 14,666,350 | |
| 9 AGGREGATE 14,666,35 | AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 50 | |
| (see Instr Not Appli | IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ructions) | [_] |
| 11 PERCENT OF 1.3% | CLASS REPRESENTED BY AMOUNT IN ROW (9) | |
| | EPORTING PERSON | |

| CUSIP No. | 038222105 136 | |
|---------------------------------|---|----------------|
| | - REPORTING PERSON an Partners Holdings LP | |
| | THE APPROPRIATE BOX IF A MEMBER OF A GROUP istructions) (a |) [_]) [_] |
| Not Ap | pplicable |) L_J |
| 3 SEC USE | E ONLY | |
| Delawa | NSHIP OR PLACE OF ORGANIZATION are | |
| NUMBER OF SHARES | 5 SOLE VOTING POWER None | |
| BENEFICIALL OWNED BY EACH | 6 SHARED VOTING POWER 12,692,075 | |
| REPORTING PERSON WITH | 7 SOLE DISPOSITIVE POWER None | |
| | 8 SHARED DISPOSITIVE POWER 14,666,350 | |
| 9 AGGREGA 14,666 | ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 6,350 | |
| (see In Not Ap | BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES astructions) Oplicable | [_] |
| 1.3% | Γ OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | |
| L2 TYPE OF | REPORTING PERSON | |

| CUSIP N | No. 038222 | 2105 | 136 | | | | |
|----------------------------------|--|---|-----------------------|--|--|--|--|
| Aı | | | | | | | |
| 2 CHE | ECK THE API ee Instruct | | | | | | |
| No | ot Applical | | (3) [_] | | | | |
| | C USE ONLY | | | | | | |
| 4 CIT | | OR PLACE OF ORGANIZATION | | | | | |
| NUMBEI SHAI | t RES | 5 SOLE VOTING POWER None | | | | | |
| BENEFIC OWNED EAC REPOR | D BY (| 6 SHARED VOTING POWER 12,692,075 | | | | | |
| PERS WIT | SON 7 | 7 SOLE DISPOSITIVE POWER None | | | | | |
| | | 8 SHARED DISPOSITIVE POWE 14,666,350 | | | | | |
| 14 | 4,666,350 | OUNT BENEFICIALLY OWNED BY | EACH REPORTING PERSON | | | | |
| 10 CHE (se | O CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) [_] Not Applicable | | | | | | |
| | RCENT OF CI | LASS REPRESENTED BY AMOUNT | | | | | |
| (se | | | | | | | |
| | | | | | | | |

Item 1(a) Name of Issuer:

Applied Materials, Inc.

Item 1(b) Address of Issuer's Principal Executive Offices:

3050 Bowers Avenue, P.O. Box 58039, Santa Clara, California 95052-8039

Item 2(a) Name of Person Filing:

Artisan Partners Limited Partnership ("APLP")
Artisan Investments GP LLC ("Artisan Investments")
Artisan Partners Holdings LP ("Artisan Holdings")
Artisan Partners Asset Management Inc. ("APAM")

Item 2(b) Address of Principal Business Office:

APLP, Artisan Investments, Artisan Holdings, and APAM are all located at:

875 East Wisconsin Avenue, Suite 800 Milwaukee, WI 53202

Item 2(c) Citizenship:

APLP is a Delaware limited partnership Artisan Investments is a Delaware limited liability company Artisan Holdings is a Delaware limited partnership APAM is a Delaware corporation

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

038222105

Item 3 Type of Person:

- (e) APLP is an investment adviser registered under section 203 of the Investment Advisers Act of 1940.
- (g) Artisan Holdings is the sole limited partner of APLP and the sole member of Artisan Investments; Artisan Investments is the general partner of APLP; APAM is the general partner of Artisan Holdings.

Item 4 Ownership (at December 31, 2015):

(a) Amount owned "beneficially" within the meaning of rule 13d-3: 14,666,350

(b) Percent of class:

1.3% (based on 1,149,133,389 shares outstanding as of 12/3/2015)

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

None

(ii) shared power to vote or to direct the vote:

12,692,075

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

None

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

14,666,350

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 [X].

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

Not Applicable

Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person:

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

Not Applicable

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 were 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 2, 2016

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez *

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez Senior Vice President of Artisan Partners Asset Management Inc. Vice President of Artisan Investments GP LLC Exhibit 1 Joint Filing Agreement dated February 2, 2016 by and among Artisan Partners Limited Partnership, Artisan Investments GP LLC, Artisan Partners Holdings LP, and Artisan Partners Asset Management Inc.

JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: February 2, 2016

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez *

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez Senior Vice President of Artisan Partners Asset Management Inc.

Vice President of Artisan Investments GP LLC