

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

SCHEDULE 13G

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

Versum Materials, Inc.
(Name of Issuer)

Common Stock
(Title of Class of Securities)

91336L107
(CUSIP Number)

December 31, 2017
(Date of Event which Requires Filing of this Statement)

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

- Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

* 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.

The information required on 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).

SCHEDULE 13G
CUSIP No. 91336L107

1. Names of Reporting Persons.

Iridian Asset Management LLC
I.R.S. Identification Nos. of above persons (entities only).

2. Check the Appropriate Box if a Member of a Group (See Instructions)

(a) (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization

Delaware

5. Sole Voting Power
0

Number of
Shares
Beneficially
Owned by
Each Reporting
Person With:

6. Shared Voting Power
6,489,341

7. Sole Dispositive Power
0

8. Shared Dispositive Power
6,489,341

9. Aggregate Amount Beneficially Owned by Each Reporting Person
6,489,341

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

11. Percent of Class Represented by Amount in Row (9)
6.0%
12. Type of Reporting Person
IA

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SCHEDULE 13G
CUSIP No. 91336L107

1. Names of Reporting Persons.
David L. Cohen
I.R.S. Identification Nos. of above persons (entities only).
2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization
United States

5. Sole Voting Power
0

Number of
Shares
Beneficially
Owned by
Each Reporting
Person With:

6. Shared Voting Power
6,489,341

7. Sole Dispositive Power
0

8. Shared Dispositive Power
6,489,341

9. Aggregate Amount Beneficially Owned by Each Reporting Person
6,489,341

10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)

11. Percent of Class Represented by Amount in Row (9)
6.0%

12. Type of Reporting Person
IN

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SCHEDULE 13G
CUSIP No. 91336L107

1. Names of Reporting Persons.
Harold J. Levy
I.R.S. Identification Nos. of above persons (entities only).
2. Check the Appropriate Box if a Member of a Group (See Instructions)
(a) (b)

3. SEC USE ONLY

4. Citizenship or Place of Organization
United States

Number of Shares Beneficially Owned by Each Reporting Person With:	5.	Sole Voting Power	0
	6.	Shared Voting Power	6,489,341
	7.	Sole Dispositive Power	0
	8.	Shared Dispositive Power	6,489,341
	9.	Aggregate Amount Beneficially Owned by Each Reporting Person	6,489,341
	10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) []	
	11.	Percent of Class Represented by Amount in Row (9)	6.0%
	12.	Type of Reporting Person	IN

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Item 1.

- (a) Name of Issuer
Versum Materials, Inc.
- (b) Address of Issuer's Principal Executive Offices
8555 South River Parkway, Tempe, Arizona 85284

Item 2.

- (a) Name of Person Filing
This Statement is being filed by and on behalf of Iridian Asset Management LLC ("Iridian"), David L. Cohen ("Cohen") and Harold J. Levy ("Levy") (collectively, the "Reporting Persons").
Iridian is majority owned by Arovid Associates LLC, a Delaware limited liability company owned and controlled by the following: 12.5% by Cohen, 12.5% by Levy, 37.5% by LLMD LLC, a Delaware limited liability company, and 37.5% by ALHERO LLC, a Delaware limited liability company. LLMD LLC is owned 1% by Cohen, and 99% by a family trust controlled by Cohen. ALHERO LLC is owned 1% by Levy and 99% by a family trust controlled by Levy.
- (b) Address of Principal Business Office or, if none, Residence
The principal business address of the Reporting Persons is 276 Post Road West, Westport, CT 06880-4704.
- (c) Citizenship or Place of Organization
Iridian is a Delaware limited liability company. Cohen and Levy are US citizens.
- (d) Title of Class of Securities
Common Stock
- (e) CUSIP Number
91336L107

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a) [] Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b) [] Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) [] Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) [] Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) [] An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) [] An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) [] A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h) [] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (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 (15 U.S.C. 80a-3);

(j) Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

(a) Amount beneficially owned and Percent of Class:

and As of the date of this Statement, the Reporting Persons beneficially owned in the aggregate 6,489,341 shares of Common Stock which equates to approximately 6.0% of the outstanding shares (the percentage of shares of Common Stock owned being based upon 108,816,851 shares of Common Stock outstanding at November 10, 2017 as set forth in the Issuer's Annual Report on Form 10-K for the fiscal year ended September 30, 2017).

(b) Iridian has direct beneficial ownership of the shares of Common Stock in the accounts for which it serves as the investment adviser under its investment management agreements.

Messrs. Cohen and Levy may be deemed to possess beneficial ownership of the shares of Common Stock beneficially owned by Iridian by virtue of their indirect controlling ownership of Iridian, and having the power to vote and direct the disposition of shares of Common Stock as joint Chief Investment Officers of Iridian. Messrs. Cohen and Levy disclaim beneficial ownership of such shares.

As used herein, "beneficial ownership" has the meaning set forth in Rule 13d-3 under the Securities Exchange Act of 1934, as amended.

(c) Power to vote or dispose.

Iridian has the direct power to vote or direct the vote, and the direct power to dispose or direct the disposition, of 6,489,341 shares of Common Stock. Cohen and Levy may be deemed to share with Iridian the power to vote or direct the vote and to dispose or direct the disposition of such shares.

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 .

Not Applicable.

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

Not Applicable.

Item 8. Identification and Classification of Members of the Group

Iridian is an investment adviser registered under Section 203 of the Investment Advisers Act of 1940, and its principal business is managing a number of accounts containing securities over which Iridian has voting and dispositive power.

Each of Messrs. Cohen and Levy has a controlling interest in Iridian, and serves as Co-Chief Executive Officer and Co-Chief Investment Officer of Iridian.

Item 9. Notice of Dissolution of Group

Not Applicable

Item 10. Certification

By signing below the undersigned certifies that, to the best of its or his 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 and do not have 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 such purpose or effect.

SIGNATURE

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

Date: February 6, 2018

IRIDIAN ASSET MANAGEMENT LLC

By: /s/ Jeffrey M. Elliott

Jeffrey M. Elliott

Title: Executive Vice President

David L. Cohen

By: /s/ Jeffrey M. Elliott

Jeffrey M. Elliott

Title: Agent

Harold J. Levy

By: /s/ Jeffrey M. Elliott

Jeffrey M. Elliott

Title: Agent

JOINT FILING AGREEMENT

This JOINT FILING AGREEMENT is made and entered into by and among Iridian Asset Management LLC, David L. Cohen and Harold J. Levy.

The parties to this Agreement hereby agree to prepare jointly and file timely (or otherwise deliver as appropriate) all filings on Schedule 13D and Schedule 13G (the "Filings") required to be filed by them pursuant to Section 13(d) or 13(g) under the Securities Exchange Act of 1934, as amended, with respect to their respective ownership of any securities of Versum Materials, Inc. that are required to be reported on any Filings. Each party to this Agreement further agrees and covenants to the other parties that it will fully cooperate with such other parties in the preparation and timely filing (and other delivery) of all such Filings.

Date: February 6, 2018

IRIDIAN ASSET MANAGEMENT LLC

By: /s/ Jeffrey M. Elliott

Jeffrey M. Elliott

Title: Executive Vice President

David L. Cohen

By: /s/ Jeffrey M. Elliott

Jeffrey M. Elliott

Title: Agent

Harold J. Levy

By: /s/ Jeffrey M. Elliott

Jeffrey M. Elliott

Title: Agent