

SCHULMAN A INC
Form SC 13D
August 14, 2017

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

SCHEDULE 13D

Under the Securities Exchange Act of 1934

A. SCHULMAN, INC.
(Name of Issuer)

Common Stock, \$1.00 par value
(Title of Class of Securities)

808194104
(CUSIP Number)

Keith M. Rosenbloom
Cruiser Capital Advisors, LLC
501 Madison Avenue, Floor 12A
New York, New York 10022
(212) 829-5833
(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

- with copies to-

Phillip M. Goldberg Foley & Lardner LLP 321 North Clark Street Suite 2800 Chicago, IL 60654-5313 (312) 832-4549	Peter D. Fetzer Foley & Larder LLP 777 East Wisconsin Avenue Suite 3800 Milwaukee, WI 53202-5306 (414) 297-5596
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August 4, 2017
(Date of Event which Requires Filing of this Statement)

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If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §240.13d-1(e), §240.13d-1(f) or §240.13d-1(g), check the following box .

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1 NAME OF REPORTING PERSON
Cruiser Capital Advisors, LLC

2 CHECK THE APPROPRIATE BOX (a) S
IF A MEMBER OF A GROUP (b) £

3 SEC USE ONLY

4 SOURCE OF FUNDS
WC

5 CHECK BOX IF DISCLOSURE OF
LEGAL PROCEEDINGS IS
REQUIRED PURSUANT TO ITEMS[£]
2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF
ORGANIZATION
Delaware

7 NUMBER OF SOLE VOTING POWER
SHARES 0

8 BENEFICIALLY SHARED VOTING POWER
OWNED BY 1,921,453

9 EACH SOLE DISPOSITIVE POWER
REPORTING 0
PERSON

10 WITH SHARED DISPOSITIVE POWER
1,921,453

11 AGGREGATE AMOUNT
BENEFICIALLY OWNED BY
EACH REPORTING PERSON
1,921,453

12 CHECK BOX IF THE
AGGREGATE AMOUNT IN ROW S*
(11) EXCLUDES CERTAIN
SHARES

13 PERCENT OF CLASS
REPRESENTED BY AMOUNT IN
ROW (11)
6.52%

14 TYPE OF REPORTING PERSON
IA

As a result of the agreements described herein, the Reporting Persons (as defined herein) may be deemed to be members of a "group" within the meaning of Section 13(d)(3) of the Exchange Act (as defined herein) and may be *deemed to beneficially own the Common Stock (as defined herein) owned by the other Reporting Persons. The share amounts reported above do not reflect any Common Stock the Reporting Persons may be deemed to be beneficially owned as a result of membership in a "group" and each of the Reporting Persons expressly disclaim such membership.

1 NAME OF REPORTING PERSON
Keith M. Rosenbloom

2 CHECK THE APPROPRIATE BOX (a) S
IF A MEMBER OF A GROUP (b) £

3 SEC USE ONLY

4 SOURCE OF FUNDS
AF

5 CHECK BOX IF DISCLOSURE OF
LEGAL PROCEEDINGS IS
REQUIRED PURSUANT TO ITEMS £
2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF
ORGANIZATION
U.S.

NUMBER OF 7 SOLE VOTING POWER
SHARES

BENEFICIALLY 8 SHARED VOTING POWER
OWNED BY 1,921,453

EACH 9 SOLE DISPOSITIVE POWER
REPORTING PERSON

WITH 10 SHARED DISPOSITIVE POWER
1,921,453

11 AGGREGATE AMOUNT
BENEFICIALLY OWNED BY
EACH REPORTING PERSON
1,921,453

12 CHECK BOX IF THE
AGGREGATE AMOUNT IN ROW S*
(11) EXCLUDES CERTAIN
SHARES

13 PERCENT OF CLASS
REPRESENTED BY AMOUNT IN
ROW (11)
6.52%

14 TYPE OF REPORTING PERSON
IN, HC

As a result of the agreements described herein, the Reporting Persons (as defined herein) may be deemed to be members of a "group" within the meaning of Section 13(d)(3) of the Exchange Act (as defined herein) and may be *deemed to beneficially own the Common Stock (as defined herein) owned by the other Reporting Persons. The share amounts reported above do not reflect any Common Stock the Reporting Persons may be deemed to be beneficially owned as a result of membership in a "group" and each of the Reporting Persons expressly disclaim such membership.

1 NAME OF REPORTING PERSON
 Kingdon Capital Management, L.L.C.
 2 CHECK THE APPROPRIATE BOX (a) S
 IF A MEMBER OF A GROUP (b) £

3 SEC USE ONLY
 4 SOURCE OF FUNDS
 WC
 5 CHECK BOX IF DISCLOSURE OF
 LEGAL PROCEEDINGS IS
 REQUIRED PURSUANT TO ITEMS £
 2(d) OR 2(e)
 6 CITIZENSHIP OR PLACE OF
 ORGANIZATION
 Delaware

7 NUMBER OF SOLE VOTING POWER
 SHARES 0
 8 BENEFICIALLY SHARED VOTING POWER
 OWNED BY 666,602
 9 EACH SOLE DISPOSITIVE POWER
 REPORTING 0
 PERSON SHARED DISPOSITIVE POWER
 WITH 10 666,602

11 AGGREGATE AMOUNT
 BENEFICIALLY OWNED BY
 EACH REPORTING PERSON
 666,602

12 CHECK BOX IF THE
 AGGREGATE AMOUNT IN ROW S*
 (11) EXCLUDES CERTAIN
 SHARES

13 PERCENT OF CLASS
 REPRESENTED BY AMOUNT IN
 ROW (11)
 2.26%

14 TYPE OF REPORTING PERSON
 IA

As a result of the agreements described herein, the Reporting Persons (as defined herein) may be deemed to be members of a "group" within the meaning of Section 13(d)(3) of the Exchange Act (as defined herein) and may be *deemed to beneficially own the Common Stock (as defined herein) owned by the other Reporting Persons. The share amounts reported above do not reflect any Common Stock the Reporting Persons may be deemed to be beneficially owned as a result of membership in a "group" and each of the Reporting Persons expressly disclaim such membership.

1 NAME OF REPORTING PERSON
Mark Kingdon

2 CHECK THE APPROPRIATE BOX (a) S
IF A MEMBER OF A GROUP (b) £

3 SEC USE ONLY

4 SOURCE OF FUNDS
AF

5 CHECK BOX IF DISCLOSURE OF
LEGAL PROCEEDINGS IS
REQUIRED PURSUANT TO ITEMS £
2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF
ORGANIZATION
U.S.

NUMBER OF 7 SOLE VOTING POWER
SHARES 0

BENEFICIALLY 8 SHARED VOTING POWER
OWNED BY 666,602

EACH 9 SOLE DISPOSITIVE POWER
REPORTING 0

PERSON 10 SHARED DISPOSITIVE POWER
WITH 666,602

11 AGGREGATE AMOUNT
BENEFICIALLY OWNED BY
EACH REPORTING PERSON
666,602

12 CHECK BOX IF THE
AGGREGATE AMOUNT IN ROW S*
(11) EXCLUDES CERTAIN
SHARES

13 PERCENT OF CLASS
REPRESENTED BY AMOUNT IN
ROW (11)
2.26%

14 TYPE OF REPORTING PERSON
IN, HC

As a result of the agreements described herein, the Reporting Persons (as defined herein) may be deemed to be members of a "group" within the meaning of Section 13(d)(3) of the Exchange Act (as defined herein) and may be *deemed to beneficially own the Common Stock (as defined herein) owned by the other Reporting Persons. The share amounts reported above do not reflect any Common Stock the Reporting Persons may be deemed to be beneficially owned as a result of membership in a "group" and each of the Reporting Persons expressly disclaim such membership.

Item 1. Security and Issuer

This Schedule 13D relates to the common stock, \$1.00 par value (the "Common Stock"), of A. Schulman, Inc., a Delaware corporation (the "Issuer"). The address of the principal executive offices of the Issuer is 3637 Ridgewood Road, Fairlawn, Ohio 44333.

As of the date of this Schedule 13D, the Reporting Persons (as defined below) held in the aggregate 2,588,055 shares of Common Stock of the Issuer, which represents 8.78% of the outstanding Common Stock.

Item 2. Identity and Background

This Schedule 13D is being filed jointly by (1) Cruiser Capital Advisors, LLC, a Delaware limited liability company ("Cruiser Capital Advisors"); (2) Keith M. Rosenbloom, the managing member of Cruiser Capital Advisors; (3) Kingdon Capital Management, L.L.C., a Delaware limited liability company ("Kingdon Capital Management"); and (4) Mark Kingdon, the managing member of Kingdon Capital Management (collectively, the (a) "Reporting Persons"). Effective as of August 8, 2017, the Reporting Persons have agreed that they may engage with one another in a dialogue with regard to their respective views of the Issuer. Accordingly, the Reporting Persons are hereby filing a joint Schedule 13D. The joint filing agreement of the Reporting Persons is attached as Exhibit 99.1 to this initial Schedule 13D.

The principal business address of Cruiser Capital Advisors and Mr. Rosenbloom is 501 Madison Avenue, Floor (b)-(c) 12A, New York, New York 10022. The principal business address of Kingdon Capital Management and Mr. Kingdon is 152 West 57th Street, 50th Floor, New York, New York 10019.

The principal business of Cruiser Capital Advisors is to serve as an investment manager or adviser to various pooled investment vehicles, including, among other entities, Cruiser Capital Master Fund LP and Metamorphosis Master Fund LP, and separately managed accounts (collectively, the "Cruiser Clients"). The principal occupation of Mr. Rosenbloom is investment management through his ownership and control over the affairs of Cruiser Capital Advisors. Cruiser Capital Advisors and Mr. Rosenbloom have sole voting and dispositive power over the Common Stock held by the Cruiser Clients.

The principal business of Kingdon Capital Management is to serve as an investment manager or adviser to, among other entities, each of M. Kingdon Offshore Master Fund L.P., a Cayman Islands limited partnership, and Kingdon Family Partnership, L.P., a New York limited partnership (collectively, the "Kingdon Funds"). The principal occupation of Mr. Kingdon is investment management through his ownership and control over the affairs of Kingdon Capital Management. Kingdon Capital Management and Mr. Kingdon have sole voting and dispositive power over the Common Stock held by the Kingdon Funds.

(d) During the last five years, none of the Reporting Persons has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).

(e) During the last five years, none of the Reporting Persons has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and, as a result of such proceeding, was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

(f) Each of Mr. Rosenbloom and Mr. Kingdon is a citizen of the United States of America.

Item 3. Source and Amount of Funds or Other Consideration

In aggregate, Cruiser Capital Advisors and Mr. Rosenbloom have sole voting and dispositive power over 1,921,453 shares of Common Stock of the Issuer acquired at an aggregate cost of \$53,247,696, excluding brokerage commissions and less the premium received for certain put options sold by Cruiser Capital Advisors relating to the Common Stock. These shares were acquired using the Cruiser Clients' available working capital. Cruiser Capital Advisors and Mr. Rosenbloom do not own any shares of Common Stock of the Issuer directly.

In aggregate, Kingdon Capital Management and Mr. Kingdon have sole voting and dispositive power over 666,602 shares of Common Stock of the Issuer acquired at an approximate aggregate cost of \$17,676,946, excluding brokerage commissions. These shares were acquired using the Kingdon Funds' available working capital. Kingdon Capital Management and Mr. Kingdon do not own any shares of Common Stock of the Issuer directly but may be deemed to beneficially own the Common Stock that are held for the account of the Kingdon Funds.

From time to time, the Reporting Persons may purchase Common Stock on margin provided by banking institutions or brokerage firms on such firms' usual terms and conditions. All or part of the shares of Common Stock held by the Reporting Persons may from time to time be pledged with one or more banking institutions or brokerage firms as collateral for loans made by such entities. Such loans, if any, generally bear interest at a rate based upon the federal funds rate plus a margin. Such indebtedness, if any, may be refinanced with other banks or broker-dealers. Other than the foregoing margin arrangements, as of the date of this filing, none of the Reporting Persons have loans secured by Common Stock.

Item 4. Purpose of Transaction

This is the Reporting Persons' initial Schedule 13D filing. In the aggregate, the Reporting Persons hold 8.78% of the Issuer's Common Stock, based upon the Issuer's outstanding shares as of May 31, 2017.

The Reporting Persons purchased the Common Stock for investment purposes. Their intent is to influence the policies of the Issuer and assert shareholder rights, with a goal of maximizing the value of the Common Stock for all shareholders.

Consistent with its investment purpose, the Reporting Persons have engaged and will continue to engage in communications with one or more officers of the Issuer and/or one or more members of the board of directors of the Issuer (the "Board"), and/or one or more representatives of the Issuer regarding the Issuer, including, but not limited to its business, management, operations, assets, capitalization, financial condition, governance, strategy and future plans. The Reporting Persons have discussed and will continue to discuss ideas that, if effectuated, may result in any of the following: changes in the Board or management of the Issuer and/or a sale or transfer of a material amount of assets of the Issuer.

The Reporting Persons may purchase, sell or transfer Common Stock beneficially owned by them from time to time in public transactions depending on economic considerations and, subject to the below considerations, the results of such communications. Any such transactions may be effected at any time or from time to time subject to any applicable limitations imposed on the sale of the Common Stock by applicable law.

Unless otherwise noted in this Schedule 13D, no Reporting Person has any plans or proposals which relate to, or would result in, any of the matters referred to in paragraphs (a) through (j), inclusive, of the instructions to Item 4 of Schedule 13D. The Reporting Persons intend to review their investment in the Issuer on a regular basis and, as a result thereof, may at any time or from time to time determine, either alone or as a group (i) to acquire additional securities of the Issuer, through open market purchases, privately negotiated transactions or otherwise (although they have no present intention of increasing their aggregate holdings above 9.999% of the Issuer's outstanding Common Stock), (ii) to dispose of all or a portion of the securities of the Issuer owned by them in the open market, in privately negotiated transactions, in one or more registered private offerings or otherwise, or (iii) to take any other available course of action, which could involve one or more of the types of transactions or have one or more of the results referenced in this Item 4.

Item 5. Interest in Securities of the Issuer

(a) - (b) As of the date of this Schedule 13D, the Reporting Persons held in the aggregate 2,588,055 shares of Common Stock of the Issuer, which represents 8.78% of the outstanding Common Stock. The percentages used in this Schedule 13D are calculated based upon 29,464,720 outstanding shares of Common Stock as of May 31, 2017. This amount is based upon the number of outstanding shares of Common Stock reported as of May 31, 2017, in the Issuer's quarterly report on Form 10-Q filed on June 28, 2017.

With regard to Cruiser Capital Advisors and Mr. Rosenbloom, this includes 1,921,453 shares of Common Stock owned on behalf of the Cruiser Clients, which represents 6.52% of the outstanding Common Stock.

Cruiser Capital Advisors acquired on behalf of Cruiser Clients listed American-style call options referencing an aggregate of 55,700 shares of Common Stock, which have an exercise price of \$25.00 per share and expire on September 15, 2017. Cruiser Capital Advisors also has sold on behalf of Cruiser Clients listed American-style put options referencing an aggregate of 2,100 shares of Common Stock at an exercise price of \$30.00 per share, which expire on August 18, 2017.

With regard to Kingdon Capital Management and Mr. Kingdon, this includes 666,602 shares of Common Stock owned on behalf of the Kingdon Funds, which represents 2.26% of the outstanding Common Stock.

Each of the Reporting Persons, as a member of a "group" with the other Reporting Persons for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), may be deemed to beneficially own the shares of Common Stock owned by the other Reporting Persons. The filing of this Schedule 13D shall not be deemed an admission that the Reporting Persons are, for purposes of Section 13(d) of the Exchange Act, the beneficial owners of any shares of Common Stock that he or it does not directly own. Each of the Reporting Persons specifically disclaims beneficial ownership of the shares of Common Stock reported herein that he or it does not directly own.

(c) Set forth below are all of the transactions in the Common Stock effected by Cruiser Capital Advisors on behalf of the Cruiser Clients during the past 60 days. All such transactions were effected through various brokerage entities, and the reported price per share excludes brokerage commissions. The range of prices on July 10, 2017 was \$30.2500-\$30.5865; on July 20, 2017 was \$25.2841-\$26.0057; on July 24, 2017 was \$25.7495-\$25.9996; on July 26, 2017 was \$25.6994-\$25.8421; on July 27, 2017 was \$25.2852-\$25.5967; on August 1, 2017 was \$26.2208-\$26.236276; on August 3, 2017 was \$26.1837-\$26.2500; on August 4, 2017 was \$26.2998-\$26.7839; on August 8, 2017 was \$26.315-\$26.333; and on August 11, 2017 was \$26.3362-\$26.599. Cruiser Capital Advisors undertakes to provide upon request by the SEC staff full information regarding the number of shares purchased or sold at each separate price.

Date	Number of Shares Purchased or (Sold)	Price Per Share (Average Price Per Share as noted by *)	Where and How Transaction Effected
6/13/2017	2,000	\$29.3914	Open Market
6/23/2017	2,500	\$28.5000	Open Market
6/27/2017	(100)	\$28.1000	Open Market
6/28/2017	6,238	\$28.1408	Open Market
6/29/2017	15,016	\$29.3088	Open Market
7/10/2017	6,400	\$30.5656*	Open Market
7/12/2017	30,000	\$30.8609	Open Market
7/13/2017	8,100	\$30.6510	Open Market
7/14/2017	2,673	\$30.7971	Open Market
7/17/2017	83,800	\$30.9497	Open Market
7/18/2017	16,600	\$30.8023	Open Market
7/19/2017	20,000	\$30.9154	Open Market
7/20/2017	296,000	\$25.9556*	Open Market
7/21/2017	100,000	\$26.5315	Open Market
7/24/2017	111,800	\$25.8512*	Open Market
7/25/2017	7,900	\$30.0000	Open Market
7/26/2017	31,286	\$25.7492*	Open Market
7/27/2017	8,714	\$25.5962*	Open Market
7/28/2017	200	\$26.6250	Open Market
7/31/2017	50,908	\$26.2823	Open Market
8/1/2017	71,207	\$26.2343*	Open Market
8/2/2017	9,627	\$26.25	Open Market
8/3/2017	28,903	\$26.20*	Open Market
8/4/2017	20,436	\$26.76*	Open Market
8/7/2017	1,000	\$26.2475	Open Market
8/8/2017	70,107	\$26.33*	Open Market
8/9/2017	92,874	\$26.38	Open Market
8/10/2017	206,651	\$26.83	Open Market
8/11/2017	95,862	\$26.54*	Open Market

Set forth below are all of the call and put options referencing shares of Common Stock bought or sold by Cruiser Capital on behalf of the Cruiser Clients during the past 60 days.

Date	Number of Shares Referenced by Call Option or (Put Option)	Strike Price	Exercise Date
7/6/2017	(5,600)	\$30.00	August 18, 2017
7/25/2017	3,500	\$30.00	August 18, 2017
8/11/2017	55,700	\$25.00	September 15, 2017

Because Mr. Rosenbloom is the managing member of Cruiser Capital Advisors, he is deemed to share voting power and dispositive power over the shares of Common Stock held by Cruiser Capital Advisors on behalf of the Cruiser Clients.

Mr. Rosenbloom has not effected any transactions in the Common Stock directly in his name.

Set forth below are all of the transactions in the Common Stock effected by Kingdon Capital Management on behalf of the Kingdon Funds during the past 60 days. All such transactions were effected through various brokerage entities, and the reported price per share excludes brokerage commissions. The range of prices on July 26, 2017 was \$24.80857-\$25.73705 and \$25.99121-\$26.71769; on July 27, 2017 was \$25.81179-\$25.81181; on July 28, 2017 was \$26.17-\$27.155 and \$27.20333-\$27.955; and on July 31, 2017 was \$26.41024-\$26.84436. Kingdon Capital Management undertakes to provide upon request by the SEC staff full information regarding the number of shares purchased or sold at each separate price.

Date	Number of Shares Purchased or (Sold)	Average Price Per Share	Where and How Transaction Effected
7/26/2017	213,000	\$25.7278	Open Market
7/27/2017	121,449	\$25.8068	Open Market
7/28/2017	235,137	\$27.5314	Open Market
7/31/2017	97,016	\$26.6869	Open Market

Because Mr. Kingdon is the managing member of Kingdon Capital Management, he is deemed to share voting power and dispositive power over the shares of Common Stock held by Kingdon Capital Management on behalf of the Kingdon Funds.

Mr. Kingdon has not effected any transactions in the Common Stock directly in his name.

(d) Other than the Cruiser Clients of the separately managed accounts for which Cruiser Capital Advisors acts as the investment adviser, no person other than the Reporting Persons is known to have the right to receive, or the power to direct the receipt of dividends from, or proceeds from the sale of, shares of the Common Stock.

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(e) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

Cruiser Capital Advisors is the investment manager on behalf of the Cruiser Clients. Each of the Cruiser Clients has granted Cruiser Capital Advisors the sole and exclusive authority to vote and dispose of the shares of Common Stock held on their behalf pursuant to a management agreement, and this grant of discretion is not terminable within 60 days. Cruiser Capital Advisors is entitled to a fee for managing and advising these Cruiser Clients, generally based upon a percentage of the Cruiser Clients' capital. Cruiser Capital Advisors serves as general partner of various partnerships. For serving as the general partner of these partnerships, Cruiser Capital Advisors is entitled to an allocation of a portion of net profits, if any, generated by the partnerships.

The following table lists call and put options referencing shares of Common Stock bought or sold by Cruiser Capital Advisors on behalf of the Cruiser Clients.

Date	Number of Shares Referenced by Call Option or (Put Option)	Strike Price	Exercise Date
7/6/2017	(5,600)	\$30.00	August 18, 2017
7/25/2017	3,500	\$30.00	August 18, 2017
8/11/2017	55,700	\$25.00	September 15, 2017

Kingdon Capital Management is the investment manager on behalf of the Kingdon Funds. Each of the Kingdon Funds has granted Kingdon Capital Management the sole and exclusive authority to vote and dispose of the shares of Common Stock held on their behalf pursuant to a management agreement, and this grant of discretion is not terminable within 60 days. Kingdon Capital Management is entitled to a fee for managing and advising these Kingdon Funds, generally based upon a percentage of the Kingdon Funds' capital. Kingdon Capital Management serves as general partner of various partnerships. For serving as the general partner of these partnerships, Kingdon Capital Management is entitled to an allocation of a portion of net profits, if any, generated by the partnerships.

On August 8, 2017, the Reporting Persons entered into a cooperation agreement (the "Cooperation Agreement") pursuant to which they agreed that they may engage with one another in a dialogue with regard to their respective views of the Issuer. Accordingly, the Reporting Persons are hereby filing this joint Schedule 13D. The filing of this Schedule 13D shall not be deemed an admission that the Reporting Persons are, for purposes of Section 13(d) of the Exchange Act, the beneficial owners of any shares of Common Stock that he or it does not directly own. Each of the Reporting Persons specifically disclaims beneficial ownership of the shares of Common Stock reported herein that he or it does not directly own.

Other than the foregoing arrangements and relationships, and (i) the Joint Filing Agreement filed as Exhibit 99.1, and (ii) the Cooperation Agreement filed as Exhibit 99.2 to this initial Schedule 13D, there are no contracts, arrangements, understandings or relationships among the persons named in Item 2 hereof and between such persons and any person with respect to any securities of the Issuer.

Item 7. Material to be Filed as Exhibits

Exhibit No. Description

- | | |
|------|--|
| 99.1 | Joint Filing Agreement by and among the Reporting Persons. |
| 99.2 | Cooperation Agreement, dated as of August 8, 2017, by and among the Reporting Persons. |
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SIGNATURES

After reasonable inquiry and to the best of their knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: August 14, 2017

CRUISER CAPITAL ADVISORS, LLC

By: /s/ Keith M. Rosenbloom
Name: Keith M. Rosenbloom
Title: Managing Member

/s/ Keith M. Rosenbloom
Keith M. Rosenbloom

KINGDON CAPITAL MANAGEMENT, L.L.C.

By: /s/ Mark Kingdon
Name: Mark Kingdon
Title: Managing Member

/s/ Mark Kingdon
Mark Kingdon

Schedule 1

OFFICERS AND DIRECTORS OF KINGDON CAPITAL MANAGEMENT, L.L.C.

The name and present principal occupation of each officer and director of Kingdon Capital Management, L.L.C. are set forth below. The business address of each person listed is 152 West 57th Street, 50th Floor, New York, NY 10019, and each person listed below is a citizen of the United States of America.

Name	Present Principal Occupation
Mark Kingdon	President and Managing Member of Kingdon Capital Management, L.L.C.
William Walsh	Chief Financial Officer of Kingdon Capital Management, L.L.C.
Michael Mackey	Chief Investment Officer of Kingdon Capital Management, L.L.C.
Richard H. Weinstein	General Counsel and Chief Compliance Officer of Kingdon Capital Management, L.L.C.