

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SCOPIA CAPITAL MANAGEMENT LP 152 WEST 57TH STREET, 33RD FLOOR NEW YORK, NY 10019		X		
Scopia Management, Inc. 152 WEST 57TH STREET, 33RD FLOOR NEW YORK, NY 10019		X		
SIROVICH MATTHEW 152 WEST 57TH STREET, 33RD FLOOR NEW YORK, NY 10019		X		
MINDICH JEREMY 152 WEST 57TH STREET, 33RD FLOOR NEW YORK, NY 10019		X		

Signatures

SCOPIA CAPITAL MANAGEMENT LP, By: Scopia Management, Inc., its general partner, Name: /s/ Matthew Sirovich, Title: Managing Director

1/7/2019

—Signature of Reporting Person

Date

SCOPIA MANAGEMENT, INC., Name: /s/ Matthew Sirovich, Title: Managing Director

1/7/2019

—Signature of Reporting Person

Date

MATTHEW SIROVICH, Name: /s/ Matthew Sirovich

1/7/2019

—Signature of Reporting Person

Date

JEREMY MINDICH, Name: /s/ Jeremy Mindich

1/7/2019

—Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Form 4 Joint Filer Information

Name: Scopia Management, Inc.
Address: 152 West 57th Street, 33rd Floor
New York, NY 10019
Date of Event Requiring Statement: 1/3/19

Name: Matthew Sirovich
Address: 152 West 57th Street, 33rd Floor
New York, NY 10019
Date of Event Requiring Statement: 1/3/19

Name: Jeremy Mindich
Address: 152 West 57th Street, 33rd Floor
New York, NY 10019
Date of Event Requiring Statement: 1/3/19