FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPE	ROVAL
	OMB Number:	3235-0287
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Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Rajendra Ajita G</u>						2. Issuer Name and Ticker or Trading Symbol SMITH A O CORP [AOS]									Check	all app	licable) ctor	10	Person(s) to Issuer 10% Owner Other (specify	
(Last) (First) (Middle) A. O. SMITH CORPORATION 500 TENNESSEE WALTZ PARKWAY						3. Date of Earliest Transaction (Month/Day/Year) 05/02/2012									X Officer (give title Other (specify below) President & COO					specify
(Street) ASHLAND CITY TN 37015 (City) (State) (Zip)				4. If Amendment, Date of Original Filed (Month/Day/Year)										. Indivi ine) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Nor	n-Deriva	ative	Sec	curitie	s Acc	uired	Dis	posed o	f, or	Ben	eficia	ally (Owne	ed			
Date					oate Ex Month/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ties Acquired (A) d Of (D) (Instr. 3, 4			4 and Se Be Ow		ount of ties cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										v	Amount	(A) or (D) Pri		Price			action(s) 3 and 4)			(11301. 4)
Common	/2012			S		2,500	D \$4		\$48	.25	25 48,564		D							
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	Date,	Code (Inst				6. Date E Expiratio (Month/I	n Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3		vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	hip D) ect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				C	Code	v	(A)		Date Exercisa		Expiration Date	Title	or Nur of	ount nber ires						

Explanation of Responses:

Remarks:

James F. Stern, Attorney-in-Fact for Ajita G. Rajendra

05/04/2012

Date

** Signature of Reporting Person

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 Number.