

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person * SMITH JOHN F (Last) (First) (Middle) SOUTHPOINTE 275 TECHNOLOGY DRIVE (Street) CANONSBURG PA 15317 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol ANSYS INC [ANSS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) Former Director
	3. Date of Earliest Transaction (Month/Day/Year) 05/17/2011	
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/17/2011		M		4,500	A	\$27.405	9,563 ⁽¹⁾	D	
Common Stock	05/17/2011		S		4,500	D	(2)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		4,500	A	\$29.97	9,563 ⁽¹⁾	D	
Common Stock	05/17/2011		S		4,500	D	(3)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		4,500	A	\$38.56	9,563 ⁽¹⁾	D	
Common Stock	05/17/2011		S		4,500	D	(4)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		4,500	A	\$38.75	9,563 ⁽¹⁾	D	
Common Stock	05/17/2011		S		4,500	D	(5)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		6,000	A	\$23.91	11,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		6,000	D	(6)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		6,000	A	\$25.625	11,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		6,000	D	(7)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		6,000	A	\$27.055	11,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		6,000	D	(8)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		1,000	A	\$26.95	6,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		1,000	D	(9)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		1,000	A	\$36.68	6,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		1,000	D	(10)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		1,000	A	\$40.89	6,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		1,000	D	(11)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		1,000	A	\$44.62	6,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		1,000	D	(12)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		21,000	A	\$9.4703	26,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		21,000	D	(13)	5,063 ⁽¹⁾	D	
Common Stock	05/17/2011		M		24,000	A	\$16.285	29,063 ⁽¹⁾	D	
Common Stock	05/17/2011		S		24,000	D	(14)	5,063 ⁽¹⁾	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)	4. Deemed Execution Date, if any (Month/Day/Year)	5. Transaction Code (Instr. 8)	6. Transaction Code V	7. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	8. Date Exercisable and Expiration Date (Month/Day/Year)	9. Title of Underlying Security (Instr. 3 and 4)	10. Amount or Number of Shares	11. Price of Derivative Security (Instr. 5)	12. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	13. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	14. Nature of Indirect Beneficial Ownership (Instr. 4)
Option to Purchase	\$27.405	05/17/2011		M		4,500	(15) 05/15/2014	Common Stock	4,500	\$0	0	D	
Option to Purchase	\$29.97	05/17/2011		M		4,500	(16) 08/15/2014	Common Stock	4,500	\$0	0	D	
Option to Purchase	\$38.56	05/17/2011		M		4,500	(17) 02/27/2015	Common Stock	4,500	\$0	0	D	
Option to Purchase	\$38.75	05/17/2011		M		4,500	(18) 11/15/2014	Common Stock	4,500	\$0	0	D	
Option to Purchase	\$23.91	05/17/2011		M		6,000	(19) 06/30/2016	Common Stock	6,000	\$0	0	D	
Option to Purchase	\$25.625	05/17/2011		M		6,000	(20) 11/15/2013	Common Stock	6,000	\$0	0	D	
Option to Purchase	\$27.055	05/17/2011		M		6,000	(21) 02/26/2014	Common Stock	6,000	\$0	0	D	
Option to Purchase	\$26.95	05/17/2011		M		1,000	(22) 05/15/2016	Common Stock	1,000	\$0	0	D	
Option to Purchase	\$36.68	05/17/2011		M		1,000	(23) 08/14/2016	Common Stock	1,000	\$0	0	D	
Option to Purchase	\$40.89	05/17/2011		M		1,000	(24) 11/16/2016	Common Stock	1,000	\$0	0	D	
Option to Purchase	\$44.62	05/17/2011		M		1,000	(25) 03/02/2017	Common Stock	1,000	\$0	0	D	
Option to Purchase	\$9.4703	05/17/2011		M		21,000	(26) 05/13/2014	Common Stock	21,000	\$0	0	D	
Option to Purchase	\$16.285	05/17/2011		M		24,000	(27) 05/17/2015	Common Stock	24,000	\$0	0	D	

Explanation of Responses:

- Includes 2,031 Deferred Stock Units.
- The trade was executed in a series of transactions with a price range of \$55.0525 to \$55.36, inclusive, with a weighted average price of \$55.120906. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.02250 to \$55.07, inclusive, with a weighted average price of \$55.060278. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.10 to \$55.11, inclusive, with a weighted average price of \$55.107476. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.09 to \$55.10, inclusive, with a weighted average price of \$55.090311. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.0575 to \$55.08, inclusive, with a weighted average price of \$55.073042. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.02 to \$55.06750, inclusive, with a weighted average price of \$55.030262. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.00 to \$55.0425, inclusive, with a weighted average price of \$55.000708. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.00250 to \$55.01250, inclusive, with a weighted average price of \$55.004. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.065 to \$55.08750, inclusive, with a weighted average price of \$55.074750. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.0075 to \$55.01, inclusive, with a weighted average price of \$55.009250. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.015 to \$55.0375, inclusive, with a weighted average price of \$55.029. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.1175 to \$55.30, inclusive, with a weighted average price of \$55.165. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The trade was executed in a series of transactions with a price range of \$55.31 to \$55.3575, inclusive, with a weighted average price of \$55.329469. The reporting person undertakes to provide to ANSYS, Inc., any security holder of ANSYS, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.
- The option grant of 6,000 shares granted on 05/15/2007 vests 25% annually in equal installments beginning on the first anniversary of the grant.
- The option grant of 6,000 shares granted on 08/15/2007 vests 25% annually in equal installments beginning on the first anniversary of the grant.
- The option grant of 6,000 shares granted on 02/27/2008 vests 25% annually in equal installments beginning on the first anniversary of the grant.

18. The option grant of 6,000 shares granted on 11/15/2007 vests 25% annually in equal installments beginning on the first anniversary of the grant.
19. The option grant of 6,000 shares granted on 06/30/2006 vests 25% annually in equal installments beginning on the first anniversary of the grant.
20. The option grant of 6,000 shares granted on 11/15/2006 vests 25% annually in equal installments beginning on the first anniversary of the grant.
21. The option grant of 6,000 shares granted on 02/26/2007 vests 25% annually in equal installments beginning on the first anniversary of the grant.
22. The option grant of 4,000 shares granted on 05/15/2009 vests 25% annually in equal installments beginning on the first anniversary of the grant.
23. The option grant of 4,000 shares granted on 08/14/2009 vests 25% annually in equal installments beginning on the first anniversary of the grant.
24. The option grant of 4,000 shares granted on 11/16/2009 vests 25% annually in equal installments beginning on the first anniversary of the grant.
25. The option grant of 4,000 shares granted on 05/15/2009 vests 25% annually in equal installments beginning on the first anniversary of the grant.
26. The option grant of 48,000 shares granted on 05/13/2004 vests 25% annually in equal installments beginning on the first anniversary of the grant.
27. The option grant of 24,000 shares granted on 05/17/2005 vests 25% annually in equal installments beginning on the first anniversary of the grant.

Annette Arribas, Attorney-in-Fact 05/19/2011

** 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 Number.