

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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

1. Name and Address of Reporting Person* CRUTCHER BRIAN T <hr/> (Last) (First) (Middle) 12500 TI BOULEVARD <hr/> (Street) DALLAS TX 75243 <hr/> (City) (State) (Zip)			2. Issuer Name and Ticker or Trading Symbol TEXAS INSTRUMENTS INC [TXN]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input type="checkbox"/> 10% Owner Officer (give title below) <input checked="" type="checkbox"/> Chief Operating Officer Other (specify below)		
			3. Date of Earliest Transaction (Month/Day/Year) 01/25/2018					
			4. If Amendment, Date of Original Filed (Month/Day/Year)			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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	01/25/2018		A		45,393 ⁽¹⁾	A	\$0	246,961	D	
Common Stock	01/25/2018		M		69,187	A	\$44.09	316,148	D	
Common Stock	01/25/2018		S		69,187	D	\$110.1884 ⁽²⁾	246,961	D	
Common Stock	01/26/2018		M		56,866	A	\$79.26	303,827	D	
Common Stock	01/26/2018		S		56,866	D	\$110.2007 ⁽³⁾	246,961	D	
Common Stock	01/29/2018		M		72,460	A	\$53.94	319,421	D	
Common Stock	01/29/2018		M		68,688	A	\$52.93	388,109	D	
Common Stock	01/29/2018		S		141,148	D	\$111.87 ⁽⁴⁾	246,961	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. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
NQ Stock Option (Right to Buy)	\$110.15	01/25/2018		A		215,336		(5)	01/25/2028	Common Stock	215,336	\$0	215,336	D	
NQ Stock Option (Right to Buy)	\$44.09	01/25/2018		M		69,187		(6)	01/23/2024	Common Stock	69,187	\$0	0	D	
NQ Stock Option (Right to Buy)	\$79.26	01/26/2018		M		56,866		(7)	01/26/2027	Common Stock	56,866	\$0	170,599	D	
NQ Stock Option (Right to Buy)	\$53.94	01/29/2018		M		72,460		(8)	01/28/2025	Common Stock	72,460	\$0	72,460	D	
NQ Stock Option (Right to Buy)	\$52.93	01/29/2018		M		68,688		(9)	01/29/2026	Common Stock	68,688	\$0	137,376	D	

Explanation of Responses:

- Award of restricted stock units pursuant to 2009 Long-Term Incentive Plan.
- The price in Table 1 is a weighted average sale price. The sales were at prices ranging from \$110.00 to \$110.78. The Issuer undertakes to provide upon request a detailed breakout of the sale prices and the number of shares sold at each price.
- The price in Table 1 is a weighted average sale price. The sales were at prices ranging from \$110.00 to \$110.41. The Issuer undertakes to provide upon request a detailed breakout of the sale prices and the number of shares sold at each price.
- The price in Table 1 is a weighted average sale price. The sales were at prices ranging from \$111.50 to \$112.34. The Issuer undertakes to provide upon request a detailed breakout of the sale prices and the number of shares sold at each price.
- The option becomes exercisable in four equal annual installments beginning on January 25, 2019.
- The option became exercisable in four equal annual installments beginning on January 23, 2015.
- The option becomes exercisable in four equal annual installments beginning on January 26, 2018.
- The option becomes exercisable in four equal annual installments beginning on January 28, 2016.
- The option becomes exercisable in four equal annual installments beginning on January 29, 2017.

/s/ Muriel C. McFarling,
Attorney in Fact

01/29/2018

** 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.

AUTHORIZATION

I hereby authorize Cynthia Hoff Trochu, Katharine Kane, Muriel C. McFarling, Jane S. Nahra, Leslie O. Mba, Ben M. Carter, and Erin E. Hilton or any one of them to sign and file on my behalf any and all forms required by the Securities and Exchange Commission pursuant to Section 16 of the Securities Exchange Act of 1934 (the "Exchange Act") relating to the reporting of beneficial ownership of equity securities of Texas Instruments Incorporated (the "Company"), and of changes in such beneficial ownership, as well as any and all representation letters that may be required in connection with sales by me of equity securities of the Company, together with any and all amendments to the foregoing. This authorization shall be effective on and after the date set forth below and shall continue in effect, unless earlier revoked by me in writing, until I am no longer required to file such forms and letters provided, however, that this authorization shall be deemed revoked with respect to any individual named above upon such individual's termination of active service with the Company.

I acknowledge that the persons authorized hereunder are not assuming, nor is the Company assuming, any of my responsibilities to comply with Section 16 of the Exchange Act and other relevant securities laws.

Dated as of the 18th day of January 2018.

/s/ Brian T. Crutcher