

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF
SECURITIESFiled 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	2. Date of Event Requiring Statement (Month/Day/Year) 09/16/2010	3. Issuer Name and Ticker or Trading Symbol TEXAS INSTRUMENTS INC [TXN]	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Sr. Vice President	5. If Amendment, Date of Original Filed (Month/Day/Year)
(Last) (First) (Middle) 12500 TI BOULEVARD			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
(Street) DALLAS TX 75243			
(City) (State) (Zip)			

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	213,334 ⁽¹⁾	D	
Common Stock	12,057 ⁽²⁾	I	By Trust
Common Stock	1,731.79 ⁽³⁾	I	By Trust-401(k)
Common Stock	97.39 ⁽⁴⁾	I	By Trust-PS

Table II - Derivative Securities Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
NQ Stock Option (Right to Buy)	(5)	02/21/2012	Common Stock	100	29.19	D	
NQ Stock Option (Right to Buy)	(6)	01/14/2014	Common Stock	13,500	32.39	D	
NQ Stock Option (Right to Buy)	(7)	01/20/2015	Common Stock	15,000	21.55	D	
NQ Stock Option (Right to Buy)	(8)	01/19/2016	Common Stock	15,000	32.55	D	
NQ Stock Option (Right to Buy)	(9)	01/18/2017	Common Stock	30,000	28.32	D	
NQ Stock Option (Right to Buy)	(10)	01/25/2018	Common Stock	30,000	29.79	D	
NQ Stock Option (Right to Buy)	(11)	01/29/2019	Common Stock	50,000	14.95	D	
NQ Stock Option (Right to Buy)	(11)	01/29/2019	Common Stock	50,000	14.95	D	
NQ Stock Option (Right to Buy)	(12)	01/28/2020	Common Stock	75,000	23.05	D	
NQ Stock Option (Right to Buy)	(12)	01/28/2020	Common Stock	75,000	23.05	D	
NQ Stock Option (Right to Buy)	(13)	01/17/2011	Common Stock	5,000	50.38	D	
NQ Stock Option (Right to Buy)	(14)	07/31/2011	Common Stock	7,000	35.13	D	
NQ Stock Option (Right to Buy)	(15)	01/16/2012	Common Stock	11,000	26.5	D	
NQ Stock Option (Right to Buy)	(16)	02/20/2013	Common Stock	13,500	16.25	D	

Explanation of Responses:

- Shares subject to terms of restricted stock units awarded under the Issuer's long-term incentive plans.
- Shares held in trust for the benefit of family members of which reporting person is a trustee.
- Estimated shares attributable to TI 401(k) account as of September 16, 2010. (Interests in this account are denominated in units. Consequently, share amount shown is an estimate.)
- Estimated shares attributable to TI Universal Profit Sharing account as of September 16, 2010. (Interests in this account are denominated in units. Consequently, share amount shown is an estimate.)
- The option becomes 100% exercisable on February 21, 2003.
- The option becomes exercisable in four equal annual installments beginning on January 14, 2005.
- The option becomes exercisable in four equal annual installments beginning on January 20, 2006.
- The option becomes exercisable in four equal annual installments beginning on January 19, 2007.
- The option becomes exercisable in four equal annual installments beginning on January 18, 2008.
- The option becomes exercisable in four equal annual installments beginning on January 25, 2009.

11. The option becomes exercisable in four equal annual installments beginning on January 29, 2010.
12. The option becomes exercisable in four equal annual installments beginning on January 28, 2011.
13. The option becomes exercisable in four equal annual installments beginning on January 17, 2002.
14. The option becomes exercisable in four equal annual installments beginning on July 31, 2002.
15. The option becomes exercisable in four equal annual installments beginning on January 16, 2003.
16. The option becomes exercisable in three annual installments beginning on February 20, 2005.

/s/ Cynthia H. Grimm,
Attorney In Fact

09/20/2010

** 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 5 (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 Joseph F. Hubach, Cynthia H. Grimm, Daniel M. Drory, Jane S. Nahra, and Suzanne A. Thomas 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 you 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 until I am no longer required to file such forms and letters, unless earlier revoked by me in writing.

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 10th day of September 2010.

/s/ Brian T. Crutcher