ODELL JEFFREY L Form SC 13G/A January 31, 2006

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 5)*

AUGUST TECHNOLOGY CORPORATION

(Name of Issuer)

Common Stock

(Title of Class of Securities)

05106U 10 5

(CUSIP Number)

December 31, 2005

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- o Rule 13d-1(c)
- ý Rule 13d-1(d)

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

^{*}The remainder of this cover page shall be filled out for a reporting person s initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

CUSIP No. 05106U 10 5

1.	Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only) Jeffrey L. O Dell		
2.	Check the Appropriate Box if a Membe (a) o (b) o	er of a Group (See Instructions)	
3.	SEC Use Only		
4.	Citizenship or Place of Organization U.S.A.		
Number of	5.	Sole Voting Power 1,102,949 (includes 5,000 shares which may be purchased upon exercise of currently exercisable options)	
Shares Beneficially Dwned by	6.	Shared Voting Power 0	
Each Reporting Person With	7.	Sole Dispositive Power 1,102,949 (includes 5,000 shares which may be purchased upon exercise of currently exercisable options)	
	8.	Shared Dispositive Power 0	
9.	Aggregate Amount Beneficially Owned by Each Reporting Person 1,102,949 (includes 5,000 shares which may be purchased upon exercise of currently exercisable options)		
10.	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o		
11.	Percent of Class Represented by Amount in Row (9) 6.0%		
12.	Type of Reporting Person (See Instructions) IN		

Answer every item. If an item is inapplicable or the answer is in the negative, so state.

Item 1.			
	(a)	Name of Issuer	
	(L)	Address of Leaves a Drive in all	
	(b)	Address of Issuer s Principal 4900 West 78th Street	Executive Offices
		1900 West foll Street	
		Bloomington, MN 55435	
Item 2.			
item 2.	(a)	Name of Person Filing	
	(-)	See Cover Page Item 1	
	(b)	Address of Principal Business Office or, if none, Residence 4900 West 78th Street	
		Bloomington, MN 55435	
	(c)	Citizenship	
	(d)	See Cover Page Item 4 Title of Class of Securities	
	(u)	Common Stock	
	(e)	CUSIP Number	
	. ,	See Cover Page	
I 2	16d		
Item 3.	If this statement is filed pursuant to \$\$240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a: Broker or dealer registered under section 15 of the Act (15 U.S.C.		
	(a)	0	780).
	(b)	0	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
	(c)	0	Insurance company as defined in section 3(a)(19) of the Act (15
			U.S.C. 78c).
	(d)	0	Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
	(e)	0	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
	(f)	0	An employee benefit plan or endowment fund in accordance with
	.,		§240.13d-1(b)(1)(ii)(F);
	(g)	0	A parent holding company or control person in accordance with §
			240.13d-1(b)(1)(ii)(G);
	(h)	О	A savings associations as defined in Section 3(b) of the Federal
	(i)	0	Deposit Insurance Act (12 U.S.C. 1813); A church plan that is excluded from the definition of an investment
	111	0	
	(-)		company under section 3(c)(14) of the Investment Company Act of
	(-)		company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
	(j)	0	company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3); Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Item 4. Ownership

See Cover Page Items 5 through 11

Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than

five percent of the class of securities, check the following o.

Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being

Reported on By the Parent Holding Company or Control Person

Not applicable

Item 8. Identification and Classification of Members of the Group

Not applicable

Item 9. Notice of Dissolution of Group

Not applicable

Item 10. Certification

Not applicable

4

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

January 26, 2006 Date

/s/ Jeffrey L. O Dell Signature

Jeffrey L. O Dell Name/Title

5

Signature 5