

CRDENTIA CORP  
Form 424B3  
October 01, 2007

PROSPECTUS SUPPLEMENT  
(To Prospectus Dated August 31, 2007)

Filed Pursuant to Rule 424(b)(3)

Registration File No. 333-145837

**7,440,141 Shares**

**Common Stock**

This Prospectus Supplement No. 2 supplements our Prospectus dated August 31, 2007 (which was contained in our Registration Statement on Form S-1 (File No. 333-145837)) with the following attached documents:

- A Summary Compensation Table setting forth information regarding compensation earned in 2006 by Crdentia's CEO, CFO, Senior Vice President and Chief Nursing Officer, and two other former executive officers who would have been among the five most highly compensated executives if they had been employed at the end of the fiscal year.

The attached information modifies and supersedes, in part, the information in the Prospectus. This Prospectus Supplement No. 2 should be read in conjunction with the Prospectus, as previously supplemented, which is required to be delivered with this Prospectus Supplement.

Our common stock is quoted on the OTC Bulletin Board under the symbol CRDT. On September 28, 2007 the last reported sale price of our common stock on the OTC Bulletin Board was \$0.35 per share.

**Investing in our common stock involves risks. See Risk Factors beginning on page 7 of our Annual Report on Form 10-K for the year ended December 31, 2006, which is incorporated by reference into the Prospectus, before deciding to invest in our common stock.**

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Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement or the accompanying prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this Prospectus Supplement No. 2 is October 1, 2007

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INDEX TO FILINGS

Summary Compensation Table setting forth information regarding compensation earned in 2006 by Crdentia's CEO, CFO, Senior Vice President and Chief Nursing Officer, and two other former executive officers who would have been among the five most highly compensated executives if they had been employed at the end of the fiscal year **Annex A**

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## Summary Compensation Table

Name and Principal Position	Year	Salary	Stock Award(s)	Option Award(s) (1)	All Other Compensation	Total Compensation
James D. Durham(2) <i>Former Chairman and Chief Executive Officer</i>	2006	\$ 363,847	\$ 675,000	\$	\$ 18,667(6)	\$ 1,057,514
James J. TerBeest <i>Chief Financial Officer and Secretary</i>	2006	\$ 207,885		489,917	53,457(7)	751,259
Randall C. Turnbull(3) <i>Senior Vice President and Chief Nursing Officer</i>	2006	\$ 138,462		61,216		199,678
Carl M. Emery(4) <i>Former Regional Operations Vice President</i>	2006	\$ 147,596		196,453	17,605(8)	361,654
Matthew J. Cahillane(5) <i>Former Regional Operations Vice President</i>	2006	\$ 147,596		196,453	17,605(8)	361,654

(1) The method of and assumptions used to calculate the value of the options granted to our named executive officers is discussed in Note 1 to our financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2006.

(2) Mr. Durham resigned effective March 1, 2007.

(3) Mr. Turnbull resigned effective April 4, 2007.

(4) Mr. Emery resigned effective December 4, 2006

(5) Mr. Cahillane resigned effective December 4, 2006

(6) Consists of health insurance benefits in the amount of \$6,259 and reimbursement for commuting expenses in the amount of \$12,408.

(7) Consists of health insurance benefits in the amount of \$4,978 and reimbursement for commuting expenses in the amount of \$48,479.

(8) Consists of health insurance benefits.

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