COGNEX CORP Form SC 13G/A February 09, 2005

UNITED STATES WASHINGTON, D.C. 20549

SCHEDULE 13G UNDER THE SECURITIES EXCHANGE ACT OF 1934 (AMENDMENT NO. __2_)*

Cognex Corp.

(Name of Issuer)

<u>Common Stock</u> (Title of Class of Securities)

<u>192422103</u>

(Cusip Number)

*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 disclosures provided in a prior cover page.

The information required on 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).

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SCHEDULE 13G

CUSI	P No.	192422	103		Page 2 of 6 Pages		
1. NAMES OF REPORTING PERSONS S.S. OR I.R.S.Brown Capital Management, IncIDENTIFICATION NOS. OF ABOVE PERSONS.							
2. CHI	ECK THE AF	(a)[] (b)[]					
3. SEC	C USE ONLY						
4. CI	FIZENSHIP (3	Maryland				
SHARI BENEI EACH	FICIALLY O		6 SI 7. Se	OLE VOTING POWER HARED VOTING POWER OLE DISPOSITIVE POWER HARED DISPOSITIVE POWER	1,202,029 None 2,550,999 None		
9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH2,550,999REPORTING PERSON							
10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES							
11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.54%							
12. TYPE OF REPORTING PERSON*				IAC	20		
CUSIP	No.	192422	103		Page 3 of 6 Pages		
Item 1	(a) (b)	Name of Issuer Address of Issu	-	Cognex Corp. One Vision Drive Natick, MA 01760-2059			
Item 2	(a) (b) (c)	Name of Person Address of Prin Office or, if non Citizenship:	cipal Business	Brown Capital Management, I 1201 N. Calvert Street Baltimore, Maryland 21202 Maryland	nc		
	(c) (d)	Title of Class o	f Securities:	Common Stock			

192422103

CUSIP Number:

(e)

Item 3:	Capacity in Which Person is Filing:	[x]	Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940

CUSIP No.	192422103		Page 4 of 6 Pages	
Item 4:	Ownership As of Dece	ember 31, 2004:		
(a)	Amount Beneficially Owned:		2,550,999	
(b)	Percent of class:		5.54%	
(c)	Number of shares to which such person has:			
(i) (ii) (iii) (iv)	Shared Sole po disposit	power to dispose or to direct the	1,202,029 None 2,550,999 None	
Item 5:	Ownership of Five Per	rcent of Less of Class:	Not applicable	

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

192422103

CUSIP No.

All of the shares of Common Stock set forth in Item 4 are owned by various investment advisory clients of Brown Capital Management, Inc., which is deemed to be a beneficial owner of those shares pursuant to Rue 13d-3 under the Securities Exchange Act of 1934, due to it discretionary power to make investment decisions over such shares for its clients and its ability to vote such shares. In all cases, persons other than Brown Capital Management, Inc. has the right to receive, or the power to direct the receipt of, dividends from, or the proceeds from the sale of the shares. No individual client holds more than five percent of the class.

Item 7:	Identification and Classification of the Subsidiary	Not applicable
	Which Acquired the Security Being Reported on By	
	the Parent Holding Company:	

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Item 9: Notice of Dissolution of Group:

Not applicable

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CUSIP No. 192422103

Item 10: Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect

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.

Brown Capital Management, Inc.

By: /s/ Eddie C. Brown

Eddie C. Brown

President December 31, 2004

Date: