Electronic Sensor Technology, Inc Form POS AM April 03, 2008

> As filed with the Securities and Exchange Commission on April 3, 2008 Registration No. 333-130900 _____

> > UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

POST-EFFECTIVE AMENDMENT NO. 2 TO FORM S-1

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

ELECTRONIC SENSOR TECHNOLOGY, INC. (Exact name of registrant as specified in its charter)

Nevada (State or other jurisdiction of incorporation or organization)

3679 (Primary Standard Industrial (I.R.S. Employer Classification Code Number) Identification Number)

98-0372780

1077 Business Center Circle Newbury Park, California 91320 (805) 480-1994

(Address and Telephone Number of Principal Executive Offices and Principal Place of Business)

Philip Yee

Secretary, Treasurer and Chief Financial Officer 1077 Business Center Circle Newbury Park, California 91320 (805) 480-1994

(Name, Address and Telephone Number of Agent For Service)

With a copy to:

Neil W. Rust, Esq. White & Case LLP 633 West Fifth Street Los Angeles, California 90071 (213) 620-7700

Approximate Date of Proposed Sale to the Public: Not applicable.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933 check the following box. []

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. []

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under

the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. $[\]$

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer []		Accelerated filer	[]
Non-accelerated filer [] (Do not check if a smaller reporting company)	Smaller	reporting company	[X]

THIS POST-EFFECTIVE AMENDMENT NO. 2 TO THE REGISTRATION STATEMENT ON FORM S-1 SHALL BECOME EFFECTIVE IN ACCORDANCE WITH SECTION 8(c) OF THE SECURITIES ACT OF 1933, AS AMENDED, ON SUCH DATE AS THE COMMISSION, ACTING PURSUANT TO SAID SECTION 8(c), MAY DETERMINE.

DEREGISTRATION OF SECURITIES; TERMINATION OF REGISTRATION STATEMENT

On November 21, 2006, the Securities and Exchange Commission declared effective this Registration Statement on Form S-1 (previously on Form SB-2) File No. 333-130900 of Electronic Sensor Technology, Inc. relating to the resale from time to time of up to 27,538,695 shares of common stock of the company by the selling security holders named in this Registration Statement. The company has determined that it will no longer maintain effectiveness of this Registration Statement in light of the recent cancellation of certain debentures and expiration and cancellation of certain warrants, the common stock of the Company underlying which was registered pursuant to this Registration Statement. Further, most, if not all, of the remaining common stock of the Company registered pursuant to the Registration Statement would now be eligible for resale pursuant to Rule 144 of the Securities Act of 1933, as amended, if the conditions of Rule 144 are met. Accordingly, this Post-Effective Amendment No. 2 is being filed to deregister all of the shares of common stock of the company that remain unsold under this Registration Statement, and to terminate the effectiveness of this Registration Statement.

Signatures

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused Post-Effective Amendment No. 2 to Registration Statement on Form S-1 to be signed on its behalf by the undersigned, thereunto duly authorized in the City of Newbury Park, State of California, on April 3, 2008.

ELECTRONIC SENSOR TECHNOLOGY, INC.

By: /s/ Barry S. Howe

Barry S. Howe

President and Chief Executive Officer

(Principal Executive Officer)

In accordance with the requirements of the Securities Act of 1933, this Post-Effective Amendment No. 2 to Registration Statement on Form S-1 has been signed by the following persons in the capacities and on the dates stated.

Date:	April	3,	2008	Ву:		/s/ Barry S. Howe		
					nt a	Barry S. Howe nd Chief Executive Officer pal Executive Officer)		
Date:	April	3,	2008	Ву:		/s/ Philip Yee		
					l Fi	Philip Yee reasurer and Chief Financial Officer nancial Officer and Principal counting Officer)		
Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment No. 2 to Registration Statement on Form S-1 has been signed below by the following persons in the capacities and on the dates indicated.								
Date:	April	3,	2008	В	By:	*		
						James H. Frey, Chairman		
Date:	April	3,	2008	В	зу:	*		
						Francis H. Chang, Director		
Date:	April	3,	2008	В	зу:	*		
						Teong C. Lim, Director		
Date:	April	3,	2008	В	ву:	*		
						Barry S. Howe, Director		
Date:	April	3,	2008	В	ву:	*		
						James Wilburn, Director		
Date:	April	3,	2008	В	ву:	*		
						Rita Benoy Bushon, Director		
Date:	April	3,	2008	В	ву:	*		
						Lewis Larson, Director		

^{*}By: /s/ Philip Yee

Philip Yee Attorney-in-Fact

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