



LIGHTWAVELOGIC™

For Immediate Release

Lightwave Logic, Inc. Announces Positive Patent Update

NEWARK, Del., March 19, 2009/ PRNewswire-FirstCall/-Lightwave Logic, Inc. (OTC Bulletin Board: LWLG- News; <http://lightwavelogic.com>), a technology company focused on the development of electro-optic polymer materials for applications in high speed fiber-optic telecommunications and optical computing, announced today the start of substantive examination and positive indications from the U.S. Patent & Trademark Office in one of our five U.S. patent applications.

The U.S. Patent Office mailed a first Office Action on the merits in one of our five U.S. patent applications. In the current Office Action, the Examiner indicates that our elected species is “free of the prior art.” Thus, while the Office Action contains some formal rejections which Lightwave intends to address in due course, the elected species meets the requirements of novelty and non-obviousness based on the Examiner’s search and comments. This application is directed to some of our core technologies which can employ, among others, our Perkinamine containing class of materials. “This is excellent news for Lightwave because it validates the uniqueness of our technical approach to new materials for nonlinear optical applications,” stated Dave Eaton, Lightwave’s Chief Technical Officer.

Lightwave considers this action to be a positive sign at the beginning of the process that will eventually lead to the issuance of all of Lightwave’s patent applications, which will in turn enable Lightwave to better protect its intellectual property with a strong, viable patent estate helping to ensure its business future.

About Light wave Logic, Inc.

Lightwave Logic, Inc. is a development stage company, moving toward prototype demonstration and commercialization of its high-activity, high-stability organic polymers for applications in electro-optical device markets. Electro-optical devices convert data from electric signals into optical signals for use in high-speed fiber-optic telecommunications systems and optical computers. Please visit the Company's website, www.lightwavelogic.com, for more information.

Safe Harbor Statement

The information posted in this release may contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. You can identify these statements by use of the words “may,” “will,” “should,” “plans,” “explores,” “expects,” “anticipates,” “continue,” “estimate,” “project,” “intend,” and similar expressions. Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated. These risks and uncertainties include, but are not limited to, general economic and business conditions, effects of continued geopolitical unrest and regional conflicts, competition, changes in technology and methods of marketing, delays in completing various engineering and manufacturing programs, changes in customer order patterns, changes in product mix, continued success in technological advances and delivering technological innovations, shortages in components, production delays due to performance quality issues with outsourced components, and various other factors beyond the Company’s control.

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