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## Group4 Labs Introduces World's First Gallium Nitride-on-Diamond(R) Wafer

Last Update: 8:20 AM ET Feb 14, 2006

MENLO PARK, Calif., Feb 14, 2006 /PRNewswire via COMTEX/ -- Group4 Labs, LLC, an extreme materials developer and supplier, announces a revolutionary, gallium nitride (GaN)-on-diamond semiconductor wafer. The new Xero Wafer(TM) sits less than 0.5 nanometers away from a synthetic diamond substrate and features unprecedented high temperature resilience for high-power, high-frequency electronic, solid-state white lighting, military and photonics applications. Initially available in modestly priced 10mm x 10mm square pieces, the Xero Wafer is the first in the new product family to be offered commercially. This new industry class of wafer is ideal for use in the conventional epitaxial growth of GaN and its aluminum- and indium-based alloys.

Group4 Labs' breakthrough technology enables the GaN layer to be atomically attached to a freestanding, proprietary polycrystalline chemical- vapor-deposited (CVD) diamond substrate (25-microns thick). The GaN exposed is an atomically smooth surface finish that is epi-ready for further epitaxial deposition. The wafer is shipped freestanding or optionally on a disposable, silicon wafer mount to permit easy handling during wafer processing.

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