

**UNITED STATES PATENT AND TRADEMARK OFFICE**

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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THE MANGROVE PARTNERS MASTER FUND, LTD., APPLE INC., and  
BLACK SWAMP IP, LLC,  
Petitioners,

v.

VIRNETX INC.,  
Patent Owner.

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Case No. IPR2015-01047<sup>1</sup>  
U.S. Patent No. 7,490,151

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**PETITIONERS' REPLY REMAND BRIEF**

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<sup>1</sup> Apple Inc. and Black Swamp IP, LLC, which filed petitions in IPR2016-00063 and IPR2016-00167, respectively, have been joined as Petitioners in the instant proceeding.

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