In 1980, Plummer showed that no planar graph is 3-extendable. Over 20 years later, it was shown that in a 5-connected planar triangulation of even order every induced matching of size 3 extends to a perfect matching. More recently, we have found that we can relax the distance condition so that if $M$ is a matching in an even 5-connected planar triangulation such that at least one of the edges in $M$ is at least distance 2 from the other two, then $M$ extends to a perfect matching. We present this result along with some additional "asymmetric" distance matching results.